

(NASA-SP-7051 (Suppl-2)) NASA THESAURUS  
SUPPLEMENT: A 3-PART CUMULATIVE SUPPLEMENT  
TO THE 1982 EDITION OF THE NASA THESAURUS  
(National Aeronautics and Space  
Administration) 29 p HC \$6.50

N85-12785

Unclas  
24509

CSCL 05B 00/82

NASA  
SP-7051  
(Suppl. 2)

# NASA THESAURUS SUPPLEMENT

**JULY 1984**

A three part cumulative  
supplement to the 1982 edition  
of the *NASA Thesaurus*



**NASA**  
National Aeronautics  
and Space Administration

Scientific and Technical  
Information Branch

1984



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# INTRODUCTION

The *NASA Thesaurus Supplement* replaces the former *6-Month Cumulative Listing of the NASA Thesaurus Changes*. This cumulative supplement to the *NASA Thesaurus* 1982 edition, incorporates all of the information normally contained in the previous publication as well as two new features: complete hierarchies and access vocabulary. It is hoped that the additional information and the improved legibility will make this a more useful product than its predecessor. Subsequent issues of the supplement will be cumulative and will be issued every six months. For detailed information on the use of the *NASA Thesaurus Supplement*, consult the front matter of the *NASA Thesaurus* 1982 edition.

Users are encouraged to consult the online NASA Thesaurus for the most complete and up-to-date information. Addenda to old hierarchies in the 1982 edition of the *NASA Thesaurus* are not given because they are readily found in the online NASA Thesaurus. Inclusion of such a feature would have substantially increased the size of the publication. In using the hierarchies in the online NASA Thesaurus, users are cautioned that these hierarchies list broad and narrow terms and not their interrelationships. The online NASA Thesaurus does not show the exact relationship when there are more than three broad and/or narrow terms.

New terms to this issue are indicated with a bullet and larger type. Designed for browsability, each new term appears in the format of the following example:

- Earthnet

Many times cross references are later made postable terms. These are shown in Part 3. When new cross references are added to older terms, the term that is referred to is not listed unless it is also a new term. For older terms check the printed or the online NASA Thesaurus.

Many Comments or suggestions about this publication, including suggestions for new terms, should be directed to the Lexicographer, NASA Scientific and Technical Information Facility, P.O. Box 8757, BWI Airport, Maryland 21240.

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# NASA THESAURUS SUPPLEMENT

## PART 1 HIERARCHICAL LISTING

### A

#### • A-310 AIRCRAFT

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 . EUROPEAN AIRBUS  
 . . A-310 AIRCRAFT  
 JET AIRCRAFT  
 . EUROPEAN AIRBUS  
 . . A-310 AIRCRAFT  
 PASSENGER AIRCRAFT  
 . EUROPEAN AIRBUS  
 . . A-310 AIRCRAFT  
 TRANSPORT AIRCRAFT  
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#### • A-320 AIRCRAFT

GS COMMERCIAL AIRCRAFT  
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 . . A-320 AIRCRAFT  
 JET AIRCRAFT  
 . EUROPEAN AIRBUS  
 . . A-320 AIRCRAFT  
 PASSENGER AIRCRAFT  
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 . . A-320 AIRCRAFT  
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 RT INTERNATIONAL COOPERATION  
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 PROGRAM  
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 PROGRAM  
 GS PROGRAMS  
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 RT AIRCRAFT ENGINES  
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SURINAM  
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GS CELESTIAL BODIES  
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  . . BINARY STARS  
  . . . CATAclysmic VARIABLES  
  . . . VARIABLE STARS  
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RT DWARF STARS  
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GS LANGUAGES  
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GS COMMERCIAL SPACECRAFT  
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  SPACE MANUFACTURING  
  SPACE PROCESSING

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  PHYSICAL CHEMISTRY  
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  NUMERICAL ANALYSIS  
  PROBLEM SOLVING

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RT AIRCRAFT DESIGN  
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  COMPUTER GRAPHICS  
  COMPUTER TECHNIQUES  
  COMPUTERIZED SIMULATION  
   $\infty$  DESIGN  
    DRAFTING MACHINES  
    ENGINE DESIGN  
    HELICOPTER DESIGN  
    LENS DESIGN  
    LOFTING  
    LOGIC DESIGN  
    MISSILE DESIGN  
    REACTOR DESIGN  
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    SATELLITE DESIGN  
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GS MANUFACTURING

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  COMPUTERIZED SIMULATION  
  ROBOTICS

**COMPUTER AIDED MAPPING**

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  . COMPUTER AIDED MAPPING  
RT COMPUTER GRAPHICS  
  COMPUTER TECHNIQUES  
  COMPUTERIZED SIMULATION  
  MAPS  
  ROBOTICS

**• COMPUTERIZED DESIGN**

USE COMPUTER AIDED DESIGN

**• CONCURRENT PROCESSING**

GS DATA PROCESSING  
  . CONCURRENT PROCESSING  
RT ARCHITECTURE (COMPUTERS)  
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  MULTIPROCESSING (COMPUTERS)  
  PARALLEL PROCESSING (COMPUTERS)

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  ICE NUCLEI  
  METEOROLOGY  
  MICROPARTICLES  
  NUCLEATION  
   $\infty$  NUCLEI  
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  COMPRESSORS  
  CONDENSATES  
   $\infty$  CONDENSERS  
  CONDENSING  
  COOLING FINS  
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  DISTILLATION EQUIPMENT  
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  HEAT PUMPS  
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GS ANALYSIS (MATHEMATICS)  
  . NUMERICAL ANALYSIS  
  . . ITERATION  
  . . . CONJUGATE GRADIENT METHOD  
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  ITERATIVE SOLUTION

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  MATHEMATICAL MODELS  
  STRUCTURAL ANALYSIS

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GS SYSTEMS ENGINEERING



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        . ELECTRIC CONTROL  
        . ELECTRONIC CONTROL  
        . FEEDBACK CONTROL  
        . MATHEMATICAL MODELS  
        . NUMERICAL CONTROL  
        . OPERATIONS RESEARCH  
        . OPTIMAL CONTROL  
        . PARAMETER IDENTIFICATION  
        . SYSTEM IDENTIFICATION  
        . SYSTEMS ANALYSIS  
        . SYSTEMS INTEGRATION

**• COOLANT LOSS**

USE LOSS OF COOLANT

**• COROTATION**

GS GYRATION  
    . ROTATION  
    . . COROTATION  
RT ASTRONOMICAL MODELS  
GALACTIC ROTATION  
GALACTIC STRUCTURE  
MAGNETOSPHERE  
SPIRAL GALAXIES  
STELLAR MOTIONS  
STELLAR ROTATION

**COSMOS 954 SATELLITE**

GS SATELLITES  
    . ARTIFICIAL SATELLITES  
    . . COSMOS SATELLITES  
    . . . COSMOS 954 SATELLITE  
    . EARTH SATELLITES  
    . . COSMOS SATELLITES  
    . . . COSMOS 954 SATELLITE  
SOVIET SPACECRAFT  
    . COSMOS SATELLITES  
    . . COSMOS 954 SATELLITE  
RT UNCONTROLLED REENTRY  
    (SPACECRAFT)

**COSPAS**

GS SATELLITES  
    . ARTIFICIAL SATELLITES  
    . . COSPAS  
    . EARTH SATELLITES  
    . . COSPAS  
RT RECONNAISSANCE  
RESCUE OPERATIONS  
SARSAT  
SEARCHING

**CRACK ARREST**

RT CRACK INITIATION  
CRACK PROPAGATION  
CRACK TIPS  
CRACKING (FRACTURING)

**CRACK TIPS**

GS CRACKS  
    . CRACK TIPS  
RT CRACK ARREST  
CRACK INITIATION  
CRACK PROPAGATION

**CRANK-NICHOLSON METHOD**

RT BOUNDARY VALUE PROBLEMS  
DIFFERENTIAL EQUATIONS  
FINITE DIFFERENCE THEORY  
FINITE ELEMENT METHOD  
NUMERICAL ANALYSIS

**• CRANKED WINGS**

USE SWEPT WINGS

**CRAY COMPUTERS**

GS SUPERCOMPUTERS  
    . CRAY COMPUTERS

**CYCLIC ADENOSINE MONOPHOSPHATE**

USE CYCLIC AMP

**CYCLIC AMP**

UF CYCLIC ADENOSINE MONOPHOSPHATE  
GS HETEROCYCLIC COMPOUNDS  
    . ADENOSINES  
    . . CYCLIC AMP  
ORGANIC COMPOUNDS  
    . CYCLIC COMPOUNDS  
    . . CYCLIC AMP  
    . NUCLEOTIDES  
    . . ADENOSINES  
    . . . CYCLIC AMP  
PHOSPHORUS COMPOUNDS  
    . PHOSPHATES  
    . . NUCLEOTIDES  
    . . . ADENOSINES  
    . . . . CYCLIC AMP  
PROTEINS  
    . NUCLEOTIDES  
    . . ADENOSINES  
    . . . CYCLIC AMP  
RT ADRENERGICS  
ALKYNES  
AMINO ACIDS  
CHOLINERGICS  
GUANINES  
PHARMACOLOGY

**CYLINDRICAL COORDINATES**

USE CARTESIAN COORDINATES

**D****• DAHOMEY**

USE BENIN

**DAMA**

USE DEMAND ASSIGNMENT MULTIPLE ACCESS

**DAST PROGRAM**

UF DRONES FOR AERODYNAMIC AND  
STRUCT TEST  
RT AEROELASTICITY  
AIRCRAFT CONTROL  
AIRCRAFT DESIGN  
DRONE AIRCRAFT  
FLIGHT TESTS  
FLUTTER  
REMOTELY PILOTED VEHICLES  
VIBRATION DAMPING

**DATA FLOW ANALYSIS**

RT COMPUTER PROGRAMS  
COMPUTER SYSTEMS PROGRAMS  
FLOW CHARTS  
NETWORK ANALYSIS  
SEQUENTIAL CONTROL

**DATA INTEGRATION**

RT DATA MANAGEMENT  
DATA SIMULATION

**DATA SIMULATION**

RT DATA INTEGRATION  
DATA MANAGEMENT

**DATA STRUCTURES**

GS DATA PROCESSING  
    . DATA STRUCTURES  
RT COMPUTER PROGRAMMING  
DATA BASES

**DEFENSE METEOROLOGICAL SATELLITE PROGRAM**

USE DMSP SATELLITES

**DEMAND ASSIGNMENT MULTIPLE ACCESS**

UF DAMA  
GS TELECOMMUNICATION  
    . MULTIPLE ACCESS  
    . . DEMAND ASSIGNMENT MULTIPLE ACCESS  
RT CHANNEL CAPACITY  
COMMUNICATION NETWORKS  
COMMUNICATION SATELLITES  
SATELLITE NETWORKS

**• DESERTIFICATION**

RT ARID LANDS  
BARREN LAND

**DESERTIFICATION-(CONT.)**

DEATH VALLEY (CA)  
DESERTLINE  
DESERTS  
DROUGHT  
EARTH ENVIRONMENT  
GOBI DESERT  
LAND  
LAND USE  
MAN ENVIRONMENT INTERACTIONS  
MOJAVE DESERT (CA)  
OASES  
REMOTE SENSING  
SAHARA DESERT (AFRICA)  
STEPPES  
WADIS

**DESYNCHRONIZATION (BIOLOGY)**

GS BIOLOGICAL EFFECTS  
    . DESYNCHRONIZATION (BIOLOGY)  
DISORIENTATION  
    . DESYNCHRONIZATION (BIOLOGY)  
PSYCHOLOGICAL EFFECTS  
    . DESYNCHRONIZATION (BIOLOGY)  
RT JET LAG  
PHYSIOLOGICAL RESPONSES  
RHYTHM (BIOLOGY)

**DIDYMIUM**

RT LANTHANUM  
NEODYMIUM  
OPTICAL FILTERS  
PRASEODYMIUM

**• DIFFERENTIAL ANALYZERS**

RT ALGORITHMS  
ANALOG COMPUTERS  
COMPUTERIZED SIMULATION  
DIFFERENTIAL EQUATIONS  
DIGITAL COMPUTERS  
DIGITAL INTEGRATORS

**DIKES (GEOLOGY)**

USE ROCK INTRUSIONS

**• DINING PHILOSOPHERS PROBLEM**

RT DISTRIBUTED PROCESSING  
INTERPROCESSOR COMMUNICATION  
PROBLEM SOLVING  
SYNCHRONISM

**DIRECTION FINDING**

RT BEARING (DIRECTION)  
RADIO DIRECTION FINDERS  
SIGNAL PROCESSING

**• DIRECTIONAL COUPLERS**

RT ANTENNA COMPONENTS  
COUPLERS  
COUPLING  
COUPLINGS  
IMPEDANCE MATCHING  
MICROSTRIP TRANSMISSION LINES  
MICROWAVE COUPLING  
TRANSMISSION LINES  
YOKES

**DIRECTORIES**

RT HANDBOOKS  
MANUALS

**DISTRIBUTED PROCESSING**

GS DATA PROCESSING  
    . DISTRIBUTED PROCESSING  
RT ARCHITECTURE (COMPUTERS)  
COMPUTER NETWORKS  
COMPUTER SYSTEMS DESIGN  
DINING PHILOSOPHERS PROBLEM  
MICROPROCESSORS

**DMSP SATELLITES**

UF DEFENSE METEOROLOGICAL SATELLITE  
PROGRAM  
GS MILITARY SPACECRAFT  
    . DMSP SATELLITES  
PROGRAMS  
    . DEFENSE PROGRAM  
    . . DMSP SATELLITES  
RT AIR DEFENSE  
EARTH SATELLITES  
METEOROLOGY  
PHOTOMAPPING  
PHOTORECONNAISSANCE

**DMSP SATELLITES-(CONT.)**  
 REMOTE SENSING  
 SATELLITE-BORNE PHOTOGRAPHY

**DOUBLE STARS**  
 USE BINARY STARS

**DRAG COEFFICIENTS**  
 SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)*

RT AERODYNAMIC COEFFICIENTS  
 AERODYNAMIC DRAG  
 DRAG  
 HYDRODYNAMIC COEFFICIENTS

#### **DREDGING**

RT ARTIFICIAL HARBORS  
 HARBORS  
 MINERAL DEPOSITS  
 MINING  
 UNDERWATER RESOURCES

**DRONES FOR AERODYNAMIC AND STRUCT TEST**  
 USE DAST PROGRAM

#### **DWARF GALAXIES**

GS CELESTIAL BODIES  
 . GALAXIES  
 . . **DWARF GALAXIES**  
 RT LOCAL GROUP (ASTRONOMY)

## **E**

### **• EARTHNET**

RT EARTH OBSERVATIONS (FROM SPACE)  
 EARTH RESOURCES  
 ESA SATELLITES  
 EUROPEAN SPACE PROGRAMS  
 LANDSAT SATELLITES  
 REMOTE SENSORS  
 SYNTHETIC APERTURE RADAR

#### **EASTERN HEMISPHERE**

RT EARTH (PLANET)  
 GEOGRAPHY  
 WESTERN HEMISPHERE

#### **EINSTEIN OBSERVATORY**

USE HEAO 2

### **• ELECTRIC AIRCRAFT**

USE FLY BY WIRE CONTROL

#### **ELECTRIC FURNACES**

GS HEATING EQUIPMENT  
 . FURNACES  
 . . **ELECTRIC FURNACES**  
 RT  $\infty$  MATERIALS  
 SPACE PROCESSING

### **• ELECTROCHROMISM**

RT COLOR  
 DISPLAY DEVICES  
 ELECTRO-OPTICS  
 ELECTROCHEMISTRY  
 THIN FILMS

### **• ELECTRODE MATERIALS**

RT ANIONS  
 ANODES  
 ANODIC COATINGS  
 CATHODES  
 CATHODIC COATINGS  
 CELL ANODES  
 CELL CATHODES  
 ELECTRODES  
 PHOTOCATHODES  
 PHOTOELECTRIC CELLS  
 PHOTOELECTRIC MATERIALS  
 PHOTOELECTROCHEMICAL DEVICES  
 TUBE ANODES

#### **EMBEDDED COMPUTER SYSTEMS**

GS DATA PROCESSING EQUIPMENT  
 . COMPUTERS  
 . . **EMBEDDED COMPUTER SYSTEMS**  
 . . . AIRBORNE/SPACEBORNE  
 COMPUTERS  
 RT ADA (PROGRAMMING LANGUAGE)

**EMPENNAGE**  
 USE TAIL ASSEMBLIES

#### **ENCKE COMET**

GS CELESTIAL BODIES  
 . COMETS  
 . . **ENCKE COMET**

#### **ENERGY EFFICIENCY TRANSPORT PROGRAM**

USE ACEE PROGRAM

#### **EURECA (ESA)**

UF EUROPEAN RETRIEVABLE CARRIER  
 GS SPACE PLATFORMS  
 . **EURECA (ESA)**  
 RT SPACE SHUTTLES

#### **EUROPEAN LARGE TELECOMM SATELLITE**

USE L-SAT

#### **EUROPEAN RETRIEVABLE CARRIER**

USE EURECA (ESA)

#### **EXERCISE**

USE PHYSICAL EXERCISE

#### **EXPERIMENT DESIGN**

SN (DESIGN OF EXPERIMENTS EXCLUDES PROTOTYPES)  
 UF DESIGN OF EXPERIMENTS  
 GS **EXPERIMENT DESIGN**  
 . FACTORIAL DESIGN  
 RT COVARIANCE  
 DEGREES OF FREEDOM  
 $\infty$  DESIGN  
 FACTOR ANALYSIS  
 LABORATORIES  
 MATHEMATICAL MODELS  
 OPERATIONS RESEARCH  
 ORTHOGONALITY  
 QUALITY CONTROL  
 REGRESSION ANALYSIS  
 STATISTICAL ANALYSIS  
 SYSTEMS ENGINEERING  
 VARIANCE (STATISTICS)

#### **EXPERT SYSTEMS**

GS INTELLIGENCE  
 . ARTIFICIAL INTELLIGENCE  
 . . **EXPERT SYSTEMS**  
 RT COMPUTER PROGRAMMING  
 $\infty$  LOGIC  
 LOGIC PROGRAMMING

#### **EXPLORER 44 SATELLITE**

UF SOLRAD 10 SATELLITE  
 GS SATELLITES  
 . ARTIFICIAL SATELLITES  
 . . EXPLORER SATELLITES  
 . . . **EXPLORER 44 SATELLITE**

#### **EXPLORER 46 SATELLITE**

UF METEOROID TECHNOLOGY SATELLITE  
 GS SATELLITES  
 . ARTIFICIAL SATELLITES  
 . . EXPLORER SATELLITES  
 . . . **EXPLORER 46 SATELLITE**

## **F**

#### **FAR UV SPECTROSCOPIC EXPLORER**

GS SATELLITES  
 . ARTIFICIAL SATELLITES  
 . . EXPLORER SATELLITES  
 . . . **FAR UV SPECTROSCOPIC EXPLORER**  
 . EARTH SATELLITES  
 . . EXPLORER SATELLITES  
 . . . **FAR UV SPECTROSCOPIC EXPLORER**

### **• FASTING**

RT AEROSPACE MEDICINE  
 DIETS  
 FOOD INTAKE  
 HYPOXIA

#### **FAUNA**

USE ANIMALS

**FEATURE EXTRACTION**  
 USE PATTERN RECOGNITION

#### **FEATURE IDENTIFICATION AND LOCATION**

**EXPER**  
 RT EARTH OBSERVATIONS (FROM SPACE)  
 IMAGE PROCESSING  
 PATTERN RECOGNITION  
 REMOTE SENSING  
 REMOTE SENSORS  
 SCENE ANALYSIS  
 SPACE SHUTTLE PAYLOADS

#### **FIRE RETARDANTS**

USE FLAME RETARDANTS

#### **FIRMWARE**

RT COMPUTER PROGRAMMING  
 HARDWARE  
 MICROPROCESSORS  
 MICROPROGRAMMING

#### **FISCHER-TROPSCH PROCESS**

RT CATALYSIS  
 CATALYTIC ACTIVITY  
 REACTION KINETICS  
 SYNTHESIS (CHEMISTRY)  
 SYNTHETIC FUELS

#### **FLAPERONS**

GS AIRFOILS  
 . AILERONS  
 . . **FLAPERONS**  
 . FLAPS (CONTROL SURFACES)  
 . . **FLAPERONS**  
 CONTROL SURFACES  
 . AILERONS  
 . . **FLAPERONS**  
 . FLAPS (CONTROL SURFACES)  
 . . **FLAPERONS**  
 RT AERODYNAMIC BRAKES

#### **FLAVOR (PARTICLE PHYSICS)**

GS THEORETICAL PHYSICS  
 . **FLAVOR (PARTICLE PHYSICS)**  
 RT HADRONS  
 PARTICLE INTERACTIONS  
 PARTICLE THEORY  
 QUANTUM THEORY  
 QUARKS

### **• FLIGHT MANAGEMENT SYSTEMS**

GS MANAGEMENT SYSTEMS  
 . **FLIGHT MANAGEMENT SYSTEMS**  
 RT AIR NAVIGATION  
 AIR TRAFFIC CONTROL  
 AIRBORNE/SPACEBORNE COMPUTERS  
 AUTOMATIC FLIGHT CONTROL  
 AUTOMATIC LANDING CONTROL  
 AVIONICS  
 COMPUTER TECHNIQUES  
 FLIGHT CONTROL  
 GROUND BASED CONTROL  
 NAVIGATION AIDS  
 ONBOARD DATA PROCESSING  
 SYSTEMS ENGINEERING

### **• FLOAT ZONES**

RT CRYSTAL GROWTH  
 MELTS (CRYSTAL GROWTH)  
 SILICON  
 SOLAR CELLS  
 SPACE PROCESSING  
 ZONE MELTING

#### **FLUID MANAGEMENT**

RT CRYOGENIC FLUID STORAGE  
 CRYOGENIC FLUIDS  
 CRYOGENIC ROCKET PROPELLANTS  
 FLUID DYNAMICS  
 FUEL CONTROL  
 REDUCED GRAVITY

#### **FLUID-SOLID INTERACTIONS**

RT GAS-SOLID INTERFACES  
 LIQUID-SOLID INTERFACES  
 SURFACE REACTIONS

### **• FORMYL IONS**

GS IONS  
 . **FORMYL IONS**  
 RADICALS  
 . **FORMYL IONS**

## FRACTALS

### FORMYL IONS-(CONT.)

RT ATMOSPHERIC CHEMISTRY  
FORMATES  
FORMIC ACID  
HYDROXYL RADICALS  
INTERSTELLAR CHEMISTRY  
INTERSTELLAR MATTER  
MOLECULAR IONS  
NEGATIVE IONS  
POSITIVE IONS

### • FRACTALS

GS DIMENSIONS  
FRACTALS  
RT ∞ APPLICATIONS OF MATHEMATICS  
COORDINATES  
EXPONENTS  
HALF SPACES  
∞ MATHEMATICS  
RATIOS  
SET THEORY  
∞ SPACE  
STRANGE ATTRACTORS

### FRAMES (DATA PROCESSING)

RT DATA MANAGEMENT  
DATA PROCESSING  
FORMAT  
IMAGE PROCESSING

## G

### GALACTIC COSMIC RAYS

GS IONIZING RADIATION  
COSMIC RAYS  
GALACTIC COSMIC RAYS  
RT ENERGETIC PARTICLES  
GALACTIC RADIATION  
SOLAR ACTIVITY EFFECTS  
SOLAR WIND

### GAS PATH ANALYSIS

RT GAS DYNAMICS  
GAS FLOW

### GEL PERMEATION CHROMATOGRAPHY

USE LIQUID CHROMATOGRAPHY

### GEODETTIC ACCURACY

RT EARTH SURFACE  
GEODESY  
GEODES  
GEOPOTENTIAL HEIGHT  
SATELLITE DOPPLER POSITIONING

### GEOGRAPHIC INFORMATION SYSTEMS

GS INFORMATION SYSTEMS  
GEOGRAPHIC INFORMATION SYSTEMS  
RT AERIAL PHOTOGRAPHY  
DATA SYSTEMS  
GEOGRAPHY  
IMAGERY  
INFRARED PHOTOGRAPHY  
REMOTE SENSING

### GEOMETRIC ACCURACY

RT DISTORTION  
GEOMETRIC RECTIFICATION (IMAGERY)  
IMAGE PROCESSING  
IMAGE RESOLUTION

### • GEOTHERMAL ANOMALIES

GS ANOMALIES  
GEOTHERMAL ANOMALIES  
RT GEOTEMPERATURE  
GEOTHERMAL RESOURCES  
SURFACE TEMPERATURE  
THERMAL MAPPING

### GIOTTO MISSION

GS ESA SPACECRAFT  
GIOTTO MISSION  
FLYBY MISSIONS  
GIOTTO MISSION  
UNMANNED SPACECRAFT  
SPACE PROBES  
GIOTTO MISSION  
RT HALLEY'S COMET

### • GOERTLER INSTABILITY

UF TAYLOR-GOERTLER INSTABILITY  
GS STABILITY  
GOERTLER INSTABILITY  
RT BOUNDARY LAYER STABILITY  
BOUNDARY LAYER TRANSITION  
CENTRIFUGAL FORCE  
FLOW STABILITY  
LAMINAR BOUNDARY LAYER  
ROTATING FLUIDS  
ROTATING LIQUIDS  
TAYLOR INSTABILITY  
VORTICES  
WALL FLOW

### • GRAVITATIONAL PHYSIOLOGY

GS PHYSIOLOGY  
GRAVITATIONAL PHYSIOLOGY  
RT ACCELERATION STRESSES  
(PHYSIOLOGY)  
AEROSPACE MEDICINE  
CENTRIFUGING STRESS  
GRAVITATIONAL EFFECTS  
PHYSIOLOGICAL ACCELERATION  
PHYSIOLOGICAL EFFECTS  
PHYSIOLOGICAL RESPONSES  
SPACE FLIGHT STRESS  
STRESS (PHYSIOLOGY)

### • GRAVITINOS

GS PARTICLES  
ELEMENTARY PARTICLES  
GRAVITINOS  
NEUTRAL PARTICLES  
GRAVITINOS  
RT BARYONS  
COSMOLOGY  
DECOUPLING  
GRAVITONS  
NEUTRINOS  
PARTICLE MASS  
WEAK ENERGY INTERACTIONS

### GRAVITY PROBE B

RT GRAVITATIONAL EFFECTS  
GYROSCOPES  
NASA PROGRAMS  
RELATIVITY

### • GRAY SCALE

RT AERIAL PHOTOGRAPHY  
IMAGE CONTRAST  
IMAGE ENHANCEMENT  
IMAGE PROCESSING  
IMAGING TECHNIQUES  
OPTICAL DATA PROCESSING  
PATTERN RECOGNITION

### • GREEN'S FUNCTIONS

UF GREEN THEOREM  
GS ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
GREEN'S FUNCTIONS  
FUNCTIONS (MATHEMATICS)  
GREEN'S FUNCTIONS  
RT DIFFERENTIAL EQUATIONS  
FIELD THEORY (ALGEBRA)  
FIELD THEORY (PHYSICS)  
HALF PLANES  
HALF SPACES  
JACOBI INTEGRAL  
MANY BODY PROBLEM

### GRIDS (MATHEMATICS)

USE COMPUTATIONAL GRIDS

### GYRES

RT AIR WATER INTERACTIONS  
COASTAL CURRENTS  
OCEAN CURRENTS  
OCEANOGRAPHY

## H

### HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

GS DISPOSAL  
WASTE DISPOSAL  
HAZARDOUS MATERIAL DISPOSAL  
(IN SPACE)  
RT AEROSPACE ENVIRONMENTS

## NASA THESAURUS SUPPLEMENT (PART 1)

### HAZARDOUS MATERIAL DISPOSAL (IN-(CONT.)

PUBLIC HEALTH  
RADIOACTIVE WASTES  
TOXICITY AND SAFETY HAZARD

### HIGH REYNOLDS NUMBER

SN (RN ABOVE 3,000)  
RT LOW REYNOLDS NUMBER  
REYNOLDS NUMBER

### • HIGH SPEED PHOTOGRAPHY

GS PHOTOGRAPHY  
HIGH SPEED PHOTOGRAPHY  
RT HIGH SPEED CAMERAS  
PHOTOGRAPHIC RECORDING

### HIGHLY MANEUVERABLE AIRCRAFT

UF HIMAT  
RT AIRBORNE/SPACEBORNE COMPUTERS  
AIRCRAFT  
AIRCRAFT MANEUVERS  
AUTOMATIC FLIGHT CONTROL  
AUTOMATIC PILOTS  
COMPUTERIZED SIMULATION  
FIGHTER AIRCRAFT  
FLIGHT CHARACTERISTICS  
FLIGHT TESTS  
REMOTELY PILOTED VEHICLES

### HIMAT

USE HIGHLY MANEUVERABLE AIRCRAFT

### HIPPARCOS SATELLITE

GS SATELLITES  
ARTIFICIAL SATELLITES  
ESA SATELLITES  
HIPPARCOS SATELLITE  
EARTH SATELLITES  
ESA SATELLITES  
HIPPARCOS SATELLITE  
RT ASTROMETRY  
EUROPEAN SPACE PROGRAMS  
SPACEBORNE ASTRONOMY  
STELLAR MOTIONS  
STELLAR PARALLAX

### HOLE BURNING

RT COMPUTER STORAGE DEVICES  
HOLOGRAPHY  
LASER APPLICATIONS  
LASERS  
LASING  
MEMORY (COMPUTERS)

### HR DIAGRAM

USE HERTZSPRUNG-RUSSELL DIAGRAM

### • HUBBLE SPACE TELESCOPE

UF LARGE SPACE TELESCOPE  
LST  
GS TELESCOPES  
SPACEBORNE TELESCOPES  
HUBBLE SPACE TELESCOPE  
RT FAINT OBJECT CAMERA  
SPACE SHUTTLES  
SPACE STATIONS  
SPACEBORNE ASTRONOMY

### • HUMAN RELATIONS

UF INTERPERSONAL RELATIONS  
RT EMPLOYEE RELATIONS  
PERSONNEL MANAGEMENT  
SOCIOLOGY

### IGFET

USE FIELD EFFECT TRANSISTORS

### IMAGE ANALYSIS

RT CLUSTER ANALYSIS  
IMAGE ENHANCEMENT  
IMAGE PROCESSING  
IMAGE RESOLUTION  
PATTERN RECOGNITION  
RADAR IMAGERY  
REMOTE SENSING  
SATELLITE IMAGERY  
SCENE ANALYSIS

## • IMAGING RADAR

GS RADAR  
 . IMAGING RADAR  
 RT RADAR IMAGERY  
 REMOTE SENSORS  
 SIDE-LOOKING RADAR  
 SYNTHETIC APERTURE RADAR

## INDOOR AIR POLLUTION

GS POLLUTION  
 . ENVIRONMENT POLLUTION  
 . . AIR POLLUTION  
 . . . INDOOR AIR POLLUTION  
 RT AIR QUALITY  
 AIR SAMPLING  
 ∞ BUILDINGS

## • INFORMATION TRANSFER

RT INFORMATION DISSEMINATION  
 INFORMATION FLOW  
 INFORMATION MANAGEMENT  
 INFORMATION RETRIEVAL  
 INFORMATION SYSTEMS  
 INTERNATIONAL COOPERATION  
 TECHNOLOGY TRANSFER  
 TECHNOLOGY UTILIZATION

## INFRARED SIGNATURES

GS SIGNATURES  
 . INFRARED SIGNATURES  
 RT INFRARED DETECTORS  
 INFRARED RADIATION  
 INFRARED SPECTRA  
 SIGNATURE ANALYSIS

## INSAT SATELLITES

USE INDIAN SPACECRAFT

## • INTEGRAL ROCKET RAMJETS

GS ENGINES  
 . AIR BREATHING ENGINES  
 . . GAS TURBINE ENGINES  
 . . . JET ENGINES  
 . . . . RAMJET ENGINES  
 . . . . . INTEGRAL ROCKET RAMJETS  
 . . . . . INTERNAL COMBUSTION ENGINES  
 . . . . . GAS TURBINE ENGINES  
 . . . . . JET ENGINES  
 . . . . . RAMJET ENGINES  
 . . . . . INTEGRAL ROCKET RAMJETS  
 RT SOLID PROPELLANT ROCKET ENGINES  
 TURBINE ENGINES

## INTEGRALS

RT DIFFERENTIAL EQUATIONS  
 FUNCTIONALS  
 INTEGRAL CALCULUS  
 ∞ MATHEMATICS

## INTEGRATED LIBRARY SYSTEMS

GS INFORMATION SYSTEMS  
 . INTEGRATED LIBRARY SYSTEMS  
 RT INFORMATION DISSEMINATION  
 INFORMATION MANAGEMENT  
 INFORMATION RETRIEVAL  
 LIBRARIES  
 ON-LINE SYSTEMS

## INTERACTIONAL AERODYNAMICS

GS FLUID MECHANICS  
 . FLUID DYNAMICS  
 . . GAS DYNAMICS  
 . . . INTERACTIONAL AERODYNAMICS  
 RT AIRFOILS  
 COMPUTATIONAL FLUID DYNAMICS  
 ∞ FLOW  
 LAMINAR BOUNDARY LAYER

## • INTERDIGITAL TRANSDUCERS

GS TRANSDUCERS  
 . INTERDIGITAL TRANSDUCERS  
 RT DIGITAL TRANSDUCERS  
 ELECTROACOUSTIC TRANSDUCERS  
 PIEZOELECTRIC TRANSDUCERS  
 SURFACE ACOUSTIC WAVE DEVICES

## • INTERPERSONAL RELATIONS

USE HUMAN RELATIONS

## ION SPECTROMETERS

USE MASS SPECTROMETERS

## IONOPAUSE

SN (EXCLUDES PLASMAPAUSE)  
 RT COMETARY ATMOSPHERES  
 PLANETARY ATMOSPHERES  
 PLASMAPAUSE  
 SPACE PLASMAS  
 VENUS ATMOSPHERE

## IRAS-ARAKI-ALCOCK COMET

GS CELESTIAL BODIES  
 . COMETS  
 . . IRAS-ARAKI-ALCOCK COMET  
 RT INFRARED ASTRONOMY SATELLITE  
 SOLAR SYSTEM

## IRS (INDIAN SPACECRAFT)

USE INDIAN SPACECRAFT

## J

## JAPANESE SPACECRAFT

UF MOS (JAPANESE SPACECRAFT)  
 RT JAPAN  
 ∞ SPACECRAFT

## JUPITER SATELLITES

GS CELESTIAL BODIES  
 . NATURAL SATELLITES  
 . . JUPITER SATELLITES  
 . . . GALILEAN SATELLITES  
 . . . . CALLISTO  
 . . . . . EUROPA  
 . . . . . GANYMEDE  
 . . . . . IO  
 SATELLITES  
 . NATURAL SATELLITES  
 . . JUPITER SATELLITES  
 . . . AMALTHEA  
 . . . GALILEAN SATELLITES  
 . . . . CALLISTO  
 . . . . . EUROPA  
 . . . . . GANYMEDE  
 . . . . . IO  
 RT JUPITER (PLANET)  
 JUPITER RINGS  
 SOLAR SYSTEM

## K

## • K-MESONS

USE KAONS

## KAMPUCHEA

UF CAMBODIA  
 GS NATIONS  
 . KAMPUCHEA  
 RT ASIA

## L

## L-SAT

UF EUROPEAN LARGE TELECOMM  
 SATELLITE  
 GS ESA SPACECRAFT  
 . ESA SATELLITES  
 . . L-SAT  
 SATELLITES  
 . ARTIFICIAL SATELLITES  
 . . COMMUNICATION SATELLITES  
 . . . L-SAT  
 . . . ESA SATELLITES  
 . . . . L-SAT  
 . . . . . EARTH SATELLITES  
 . . . . . COMMUNICATION SATELLITES  
 . . . . . L-SAT  
 . . . . . ESA SATELLITES  
 . . . . . L-SAT  
 RT SATELLITE NETWORKS

## LANDSAT 4

UF EARTH RESOURCES TECHNOLOGY  
 SATELLITE D  
 ERTS-D  
 GS SATELLITES  
 . ARTIFICIAL SATELLITES

## LANDSAT 4-(CONT.)

. . LANDSAT SATELLITES  
 . . . LANDSAT 4  
 . . . EARTH SATELLITES  
 . . . LANDSAT SATELLITES  
 . . . LANDSAT 4

## • LANDSAT 5

GS SATELLITES  
 . ARTIFICIAL SATELLITES  
 . . LANDSAT SATELLITES  
 . . . LANDSAT 5  
 . . . EARTH SATELLITES  
 . . . LANDSAT SATELLITES  
 . . . LANDSAT 5

## • LARGE SPACE TELESCOPE

USE HUBBLE SPACE TELESCOPE

## LEVITATION MELTING

GS PHASE TRANSFORMATIONS  
 . MELTING  
 . . LEVITATION MELTING  
 RT ELECTRIC CURRENT  
 EXTERNAL SURFACE CURRENTS  
 LEVITATION  
 LIQUID METALS  
 LOW GRAVITY MANUFACTURING  
 MAGNETIC SUSPENSION  
 ∞ METALLURGY  
 OHMIC DISSIPATION  
 RESISTANCE HEATING  
 SPACE MANUFACTURING  
 SPACE PROCESSING

## LIGHT VALVES

RT ELECTRO-OPTICS  
 LIGHT MODULATION  
 LIQUID CRYSTALS  
 OPTICAL DATA PROCESSING

## LIQUID PLUS SOLID ZONES

USE MUSHY ZONES

## • LOCAL GROUP (ASTRONOMY)

GS CELESTIAL BODIES  
 . GALAXIES  
 . . GALACTIC CLUSTERS  
 . . . LOCAL GROUP (ASTRONOMY)  
 . . . . ANDROMEDA GALAXIES  
 RT BARRED GALAXIES  
 COSMOLOGY  
 DISK GALAXIES  
 DWARF GALAXIES  
 ELLIPTICAL GALAXIES  
 SPIRAL GALAXIES  
 VIRGO GALACTIC CLUSTER

## • LOGIC PROGRAMMING

GS SOFTWARE ENGINEERING  
 . COMPUTER PROGRAMMING  
 . . LOGIC PROGRAMMING  
 RT ARTIFICIAL INTELLIGENCE  
 EXPERT SYSTEMS  
 LOGIC DESIGN

## • LOSS OF COOLANT

UF COOLANT LOSS  
 GS ACCIDENTS  
 . LOSS OF COOLANT  
 RT COOLANTS  
 LEAKAGE  
 LOSSES  
 NUCLEAR REACTORS  
 REACTOR MATERIALS

## LOW INTENSITY X RAY IMAGING SCOPE

USE LIXISCOPE

## LOW REYNOLDS NUMBER

SN (RN BELOW 2,000)  
 RT HIGH REYNOLDS NUMBER  
 REYNOLDS NUMBER

## LUNAR ATMOSPHERE

UF LUNAR IONOSPHERE  
 GS ENVIRONMENTS  
 . EXTRATERRESTRIAL ENVIRONMENTS  
 . . LUNAR ENVIRONMENT  
 . . . LUNAR ATMOSPHERE  
 . . . SATELLITE ATMOSPHERES  
 . . . . LUNAR ATMOSPHERE  
 RT MOON

## MADAGASCAR

LUNAR ATMOSPHERE-(CONT.)  
PLANETARY ATMOSPHERES

## M

MADAGASCAR  
USE MALAGASY REPUBLIC

MAGELLAN MISSION  
GS SATELLITES  
.. ARTIFICIAL SATELLITES  
.. ESA SATELLITES  
.. MAGELLAN MISSION  
.. EARTH SATELLITES  
.. ESA SATELLITES  
.. MAGELLAN MISSION  
RT EXTREME ULTRAVIOLET RADIATION  
FAR ULTRAVIOLET RADIATION  
SPACEBORNE ASTRONOMY

MAGNETIC BEARINGS  
GS BEARINGS  
.. MAGNETIC BEARINGS  
RT LEVITATION  
MAGNETIC SUSPENSION

MAGSAT B SATELLITE  
GS SATELLITES  
.. ARTIFICIAL SATELLITES  
.. MAGSAT B SATELLITE  
.. EARTH SATELLITES  
.. MAGSAT B SATELLITE  
.. SCIENTIFIC SATELLITES  
.. MAGSAT B SATELLITE  
RT GEOMAGNETISM  
MAGNETOMETERS

• MANNED MANEUVERING UNITS  
GS EXTRAVEHICULAR MOBILITY UNITS  
.. ASTRONAUT MANEUVERING  
EQUIPMENT  
.. MANNED MANEUVERING UNITS  
RT ASTRONAUT LOCOMOTION  
EXTRAVEHICULAR ACTIVITY  
LIFE SUPPORT SYSTEMS  
ORBITAL SERVICING  
SELF MANEUVERING UNITS  
SPACE SUITS

MAPSAT  
GS SATELLITES  
.. ARTIFICIAL SATELLITES  
.. MAPSAT  
.. EARTH SATELLITES  
.. MAPSAT  
RT LANDSAT SATELLITES  
MAPPING  
REMOTE SENSING  
STEREOPHOTOGRAPHY

MARANGONI CONVECTION  
GS CONVECTION  
.. MARANGONI CONVECTION  
RT CONVECTIVE FLOW  
FREE CONVECTION  
INTERFACIAL TENSION  
LOW GRAVITY MANUFACTURING  
MELTS (CRYSTAL GROWTH)  
REDUCED GRAVITY  
SPACE PROCESSING

MARECS MARITIME SATELLITES  
GS ESA SPACECRAFT  
.. ESA SATELLITES  
.. MARECS MARITIME SATELLITES  
SATELLITES  
.. ARTIFICIAL SATELLITES  
.. COMMUNICATION SATELLITES  
.. MARECS MARITIME SATELLITES  
.. ESA SATELLITES  
.. MARECS MARITIME SATELLITES  
.. MARITIME SATELLITES  
.. MARECS MARITIME SATELLITES  
.. EARTH SATELLITES  
.. COMMUNICATION SATELLITES  
.. MARECS MARITIME SATELLITES  
.. ESA SATELLITES  
.. MARECS MARITIME SATELLITES  
.. MARITIME SATELLITES  
.. MARECS MARITIME SATELLITES  
RT EUROPEAN SPACE PROGRAMS

MARECS MARITIME SATELLITES-(CONT.)  
SATELLITE NETWORKS

MARINER MARK 2 SPACECRAFT  
RT FLYBY MISSIONS  
INTERPLANETARY FLIGHT  
∞ SPACECRAFT

• MEGAMECHANICS  
RT LARGE SPACE STRUCTURES  
STRUCTURAL ANALYSIS  
STRUCTURAL ENGINEERING  
TRUSSES  
MEMORY (COMPUTERS)  
RT ARCHITECTURE (COMPUTERS)  
COMPUTER DESIGN  
COMPUTER STORAGE DEVICES  
COMPUTERS  
HOLE BURNING  
MAGNETIC DISKS  
VIDEO DISKS

MESFETS  
USE FIELD EFFECT TRANSISTORS

MESH (MATHEMATICS)  
USE COMPUTATIONAL GRIDS

MESON RESONANCE  
GS PARTICLES  
.. ELEMENTARY PARTICLES  
.. BOSONS  
.. MESONS  
.. MESON RESONANCE  
.. X MESONS  
.. FERMIONS  
.. MESON RESONANCE  
.. NUCLEAR PARTICLES  
.. BOSONS  
.. MESONS  
.. MESON RESONANCE  
.. X MESONS  
RT BARYONS  
HYPERONS

METALLICITY  
RT ABUNDANCE  
CHEMICAL ANALYSIS  
CHEMICAL COMPOSITION  
GALACTIC CLUSTERS  
GALAXIES  
GLOBULAR CLUSTERS  
HYDROGEN  
INTERSTELLAR MATTER  
MASS RATIOS  
METALLIC STARS  
METALS  
SPECTROSCOPIC ANALYSIS  
STAR CLUSTERS  
STARS

METEOROID TECHNOLOGY SATELLITE  
USE EXPLORER 46 SATELLITE

• MICROGRAVITY  
USE REDUCED GRAVITY  
• ∞ MICROGRAVITY APPLICATIONS  
SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT ELECTROPHORESIS  
LOW GRAVITY MANUFACTURING  
SPACE COMMERCIALIZATION  
SPACE MANUFACTURING  
SPACE PROCESSING

• MICROMECHANICS  
RT COMPOSITE MATERIALS  
CRACK PROPAGATION  
FRACTURE MECHANICS  
MECHANICAL PROPERTIES  
MICROSTRUCTURE  
REINFORCING FIBERS  
STRESS CONCENTRATION

MILANKOVITCH THEORY  
USE CLIMATOLOGY

## NASA THESAURUS SUPPLEMENT (PART 1)

MINIMAL SURFACES  
RT BOUNDARY VALUE PROBLEMS  
CONFORMAL MAPPING  
FINITE ELEMENT METHOD  
∞ SURFACES

MISFETS  
USE FIELD EFFECT TRANSISTORS

MIXING DEPTH  
USE MIXING HEIGHT

MIXING HEIGHT  
UF MIXING DEPTH  
RT AIR POLLUTION  
ATMOSPHERIC CIRCULATION  
CONVECTION  
CONVECTION CURRENTS  
VERTICAL AIR CURRENTS  
WIND (METEOROLOGY)

MOBILE COMMUNICATION SYSTEMS  
GS MOBILE COMMUNICATION SYSTEMS  
.. LAND MOBILE SATELLITE SERVICE  
RT COMMUNICATION SATELLITES  
MSAT  
RADIO COMMUNICATION

MODE COUPLING  
USE COUPLED MODES

MOS (JAPANESE SPACECRAFT)  
USE JAPANESE SPACECRAFT

MOTION SIMULATION  
GS HUMAN FACTORS ENGINEERING  
.. MOTION SIMULATION  
SIMULATION  
.. MOTION SIMULATION  
RT FLIGHT SIMULATION  
FLIGHT SIMULATORS  
MOTION SIMULATORS

MOZAMBIQUE  
GS NATIONS  
.. MOZAMBIQUE  
RT AFRICA

MUCUS  
GS BODY FLUIDS  
.. MUCUS  
RT SALIVA

MULTI-ANODE MICROCHANNEL ARRAYS  
RT ANODES  
ARRAYS  
ASTRONOMICAL TELESCOPES  
MICROCHANNELS  
RADIATION DETECTORS  
SPACEBORNE TELESCOPES

MULTIBEAM ANTENNAS  
RT BEAMS (RADIATION)  
SATELLITE ANTENNAS

• MURCHISON METEORITE  
GS CELESTIAL BODIES  
.. METEORITES  
.. STONY METEORITES  
.. CHONDRITES  
.. CARBONACEOUS CHONDRITES  
.. MURCHISON METEORITE

MUSHY ZONES  
UF LIQUID PLUS SOLID ZONES  
RT CASTING  
COOLING  
METALLOGRAPHY  
PHASE TRANSFORMATIONS  
SOLIDIFICATION

## N

• NARROWBAND  
GS BANDWIDTH  
.. NARROWBAND  
RT BROADBAND  
FREQUENCIES

**NEUTRAL ATMOSPHERES**

RT ∞ ATMOSPHERES

**NEW BRUNSWICK**

GS NATIONS  
. CANADA  
. NEW BRUNSWICK

**NEW YORK CITY (NY)**

GS CITIES  
. NEW YORK CITY (NY)  
RT NEW YORK

**NEWFOUNDLAND**

GS LANDFORMS  
. ISLANDS  
. NEWFOUNDLAND  
NATIONS  
. CANADA  
. NEWFOUNDLAND

• **NITROGEN FIXATION**

USE NITROGENATION

• **NITROGENATION**

UF NITROGEN FIXATION  
GS CHEMICAL REACTIONS  
. NITROGENATION  
RT LEGUMINOUS PLANTS  
LIGHTNING  
NITROGEN

**NOAA E**

USE NOAA 8 SATELLITE

**NOAA 8 SATELLITE**

UF NOAA E  
GS SATELLITES  
. ARTIFICIAL SATELLITES  
. METEOROLOGICAL SATELLITES  
. NOAA 8 SATELLITE  
. EARTH SATELLITES  
. METEOROLOGICAL SATELLITES  
. NOAA 8 SATELLITE  
RT SARSAT

• **NORTH VIETNAM**

USE VIETNAM

**NORTHWEST TERRITORIES**

GS NATIONS  
. CANADA  
. NORTHWEST TERRITORIES

**NOVA COMPUTERS**

GS DATA PROCESSING EQUIPMENT  
. COMPUTERS  
. DIGITAL COMPUTERS  
. MINICOMPUTERS  
. NOVA COMPUTERS

**NOVA SATELLITES**

GS SATELLITES  
. ARTIFICIAL SATELLITES  
. NAVIGATION SATELLITES  
. NOVA SATELLITES  
. EARTH SATELLITES  
. NAVIGATION SATELLITES  
. NOVA SATELLITES  
UNMANNED SPACECRAFT  
. NAVIGATION SATELLITES  
. NOVA SATELLITES  
RT DISCOS (SATELLITE ATTITUDE CONTROL)  
TRANSIT NAVIGATION SYSTEM

**NOVA SCOTIA**

GS NATIONS  
. CANADA  
. NOVA SCOTIA

**NOWCASTING**

GS FORECASTING  
. WEATHER FORECASTING  
. NOWCASTING  
METEOROLOGY  
. WEATHER FORECASTING  
. NOWCASTING

**NUCLEAR MEDICINE**

UF RADIATION MEDICINE  
GS MEDICAL SCIENCE  
. NUCLEAR MEDICINE

**NUCLEAR MEDICINE-(CONT.)**

. . RADIOBIOLOGY  
RT ANTIRADIATION DRUGS  
HEALTH PHYSICS  
RADIOPATHOLOGY

**NUCLEAR WASTES**

USE RADIOACTIVE WASTES

**NUMERICAL DATA BASES**

GS INFORMATION SYSTEMS  
. NUMERICAL DATA BASES  
RT INFORMATION RETRIEVAL  
ON-LINE SYSTEMS

**O**

**OPEN PROJECT**

UF ORIGIN OF PLASMAS IN EARTH  
NEIGHBORHOOD  
RT EARTH ATMOSPHERE  
MAGNETOSPHERE  
PLASMA DIAGNOSTICS  
PLASMA PHYSICS  
PLASMASPHERE  
SATELLITE-BORNE INSTRUMENTS  
SPACE PLASMAS

**OPHIUCHI CLOUDS**

RT CLOUD PHYSICS  
INTERSTELLAR GAS  
INTERSTELLAR MATTER  
NEBULAE

**OPTICAL BISTABILITY**

GS ELECTROMAGNETIC PROPERTIES  
. OPTICAL PROPERTIES  
. OPTICAL BISTABILITY  
RT HYSTERESIS  
INTEGRATED OPTICS  
LIGHT TRANSMISSION  
NONLINEAR OPTICS  
OPTICAL DATA STORAGE MATERIALS  
OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
OPTICAL MEMORY (DATA STORAGE)  
OPTICAL WAVEGUIDES  
SWITCHING CIRCUITS

**OPTICAL COMPUTERS**

GS DATA PROCESSING EQUIPMENT  
. COMPUTERS  
. OPTICAL COMPUTERS  
RT COHERENT LIGHT  
COMPUTER DESIGN  
ELECTRO-OPTICS  
OPTICAL EQUIPMENT  
OPTICAL MEMORY (DATA STORAGE)

• **OPTICAL DISKS**

GS PERIPHERAL EQUIPMENT (COMPUTERS)  
. COMPUTER STORAGE DEVICES  
. OPTICAL DISKS  
RT DATA STORAGE  
LASER APPLICATIONS  
OPTICAL DATA PROCESSING  
OPTICAL EQUIPMENT  
OPTICAL MEMORY (DATA STORAGE)  
VIDEO DISKS

• **ORATORY**

USE PUBLIC SPEAKING

**ORBITAL MANEUVERING VEHICLES**

RT ORBIT TRANSFER VEHICLES  
ORBITAL SERVICING  
POWER MODULES (STS)  
REMOTELY PILOTED VEHICLES  
SATELLITES  
∞ SPACECRAFT

**ORIGIN OF PLASMAS IN EARTH NEIGHBORHOOD**

USE OPEN PROJECT

**OSCILLATOR STRENGTHS**

RT ABSORPTION SPECTRA  
ABSORPTIVITY  
ELECTRON OSCILLATIONS  
ELECTRON TRANSITIONS  
LINE SPECTRA

**OSCILLATOR STRENGTHS-(CONT.)**

MOLECULAR OSCILLATIONS  
MOLECULAR OSCILLATORS  
OSCILLATORS  
SPECTRAL LINE WIDTH

**P**

**PARTICLE LADEN JETS**

RT FUEL FLOW  
JET FLOW  
PARTICLES  
TURBULENT FLOW

**PAYLOAD TRANSFER**

RT ORBITAL SERVICING  
PAYLOAD RETRIEVAL (STS)  
SPACE MAINTENANCE

**PBB**

USE POLYBROMINATED BIPHENYLS

• **PERSONAL COMPUTERS**

GS DATA PROCESSING EQUIPMENT  
. COMPUTERS  
. DIGITAL COMPUTERS  
. MICROCOMPUTERS  
. PERSONAL COMPUTERS  
RT COMPUTER TECHNIQUES

• **PHOTOCINOMETRY**

USE PHOTOGRAMMETRY

**PIONEER 12 SPACE PROBE**

USE PIONEER VENUS SPACECRAFT

**PLASMA ANTENNAS**

GS ANTENNAS  
. PLASMA ANTENNAS  
RT ANTENNA DESIGN  
ANTENNA RADIATION PATTERNS  
PLASMA CYLINDERS  
SPACECRAFT COMMUNICATION

**PLASMA BUBBLES**

RT F REGION  
PLASMA DENSITY

• **POLAR CUSPS**

RT AERONOMY  
GEOMAGNETIC LATITUDE  
GEOMAGNETIC TAIL  
GEOMAGNETISM  
GEOPHYSICS  
INTERPLANETARY SPACE  
LINES OF FORCE  
MAGNETIC FIELD CONFIGURATIONS  
MAGNETIC FIELDS  
MAGNETOPAUSE  
MAGNETOSPHERE  
PLANETARY MAGNETIC FIELDS  
POLAR REGIONS  
SPACE PLASMAS

• **POLARITONS**

GS POLARITONS  
. PLASMONS

**POLYBROMINATED BIPHENYLS**

UF PBB  
GS TOXINS AND ANTITOXINS  
. POLYBROMINATED BIPHENYLS  
RT FLAME RETARDANTS  
POLYCHLORINATED BIPHENYLS

**POWER FACTOR CONTROLLERS**

GS CONTROLLERS  
. POWER FACTOR CONTROLLERS  
RT CURRENT REGULATORS  
ELECTRIC MOTORS  
ENERGY CONSERVATION  
ENERGY CONVERSION EFFICIENCY  
INDUCTION MOTORS  
POWER EFFICIENCY  
VOLTAGE REGULATORS

## POWER LOSS

### • ∞ POWER LOSS

- SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT ENERGY DISSIPATION  
POWER EFFICIENCY

### • PRE-MAIN SEQUENCE STARS

- GS CELESTIAL BODIES  
  . STARS  
  . . MAIN SEQUENCE STARS  
  . . . PRE-MAIN SEQUENCE STARS  
RT STELLAR EVOLUTION

#### PREPROCESSING

- RT DATA PROCESSING  
DATA REDUCTION  
IMAGE PROCESSING

#### PRINCE EDWARD ISLAND

- GS LANDFORMS  
  . ISLANDS  
  . . PRINCE EDWARD ISLAND  
  NATIONS  
  . CANADA  
  . . PRINCE EDWARD ISLAND

### • PRINCIPAL COMPONENTS ANALYSIS

- RT IMAGE PROCESSING  
IMAGING TECHNIQUES  
KARHUNEN-LOEVE EXPANSION  
PATTERN RECOGNITION

### • PROTOCOL (COMPUTERS)

- RT CHANNELS (DATA TRANSMISSION)  
COMMUNICATION NETWORKS  
COMPUTER NETWORKS  
DATA LINKS  
DATA PROCESSING  
DATA TRANSMISSION  
PACKET SWITCHING

#### PSEUDOPOTENTIALS

- GS IMPURITIES  
  . PSEUDOPOTENTIALS  
RT IMPURITIES  
MELTING  
SEMICONDUCTORS (MATERIALS)

### • PUBLIC SPEAKING

- UF ORATORY  
RT LECTURES  
SPEECH

#### PULSE REPETITION RATE

- GS RATES (PER TIME)  
  . PULSE RATE  
  . . PULSE REPETITION RATE  
RT ∞ FREQUENCY RESPONSE  
OPTICAL PUMPING  
PULSE DURATION  
PULSE GENERATORS  
PULSED LASERS

#### P78-2 SATELLITE

- USE SCATHA SATELLITE

## Q

#### QUANTUM ELECTRONICS

- RT ∞ ELECTRONICS  
LASERS  
QUANTUM MECHANICS  
QUANTUM THEORY

#### QUERY LANGUAGES

- GS LANGUAGES  
  . COMMAND LANGUAGES  
  . . QUERY LANGUAGES  
RT INFORMATION RETRIEVAL

## R

#### RADARSAT

- GS CANADIAN SPACECRAFT  
  . RADARSAT

#### RADARSAT-(CONT.)

- RT CANADIAN SPACE PROGRAMS  
SYNTHETIC APERTURE RADAR

### • RADIATION MEDICINE

- USE NUCLEAR MEDICINE

#### RADIOCARDIOGRAPHY

- GS BIOENGINEERING  
  . BIOMETRICS  
  . . RADIOCARDIOGRAPHY  
  CARDIOLOGY  
  . . RADIOCARDIOGRAPHY  
RT CARDIOLOGY

#### RAYLEIGH-BENARD CONVECTION

- GS CONVECTION  
  . FREE CONVECTION  
  . . RAYLEIGH-BENARD CONVECTION  
  FLUID FLOW  
  . CONVECTIVE FLOW  
  . . RAYLEIGH-BENARD CONVECTION  
  . . . BENARD CELLS  
RT CONVECTION CURRENTS  
CONVECTIVE HEAT TRANSFER  
FORCED CONVECTION  
HOT SURFACES  
LAMINAR FLOW  
RAYLEIGH NUMBER  
THERMAL BOUNDARY LAYER

#### REARWARD FACING STEPS

- USE BACKWARD FACING STEPS

### • RECTANGULAR WAVEGUIDES

- GS TRANSMISSION LINES  
  . COMMUNICATION CABLES  
  . . WAVEGUIDES  
  . . . RECTANGULAR WAVEGUIDES  
RT BEAM WAVEGUIDES  
MICROWAVE FILTERS

#### RED DWARF STARS

- GS CELESTIAL BODIES  
  . STARS  
  . . DWARF STARS  
  . . . RED DWARF STARS  
RT HOT STARS  
LATE STARS  
MAIN SEQUENCE STARS  
STELLAR LUMINOSITY  
STELLAR MAGNITUDE  
SUBDWARF STARS  
SUPERNOVA REMNANTS  
WHITE DWARF STARS

#### REFLECTION NEBULAE

- GS CELESTIAL BODIES  
  . NEBULAE  
  . . REFLECTION NEBULAE  
RT COSMIC DUST  
INTERSTELLAR MATTER  
LIGHT SCATTERING

#### REFORESTATION

- GS MANAGEMENT  
  . RESOURCES MANAGEMENT  
  . . FOREST MANAGEMENT  
  . . . REFORESTATION  
RT FORESTS  
TIMBER INVENTORY

#### REVERSE SWITCHING RECTIFIERS

- GS RECTIFIERS  
  . REVERSE SWITCHING RECTIFIERS  
RT CRYSTAL RECTIFIERS  
MODULATORS  
SOLID STATE DEVICES

#### ROBOTICS

- RT ARTIFICIAL INTELLIGENCE  
AUTOMATA THEORY  
AUTOMATIC CONTROL  
COMPUTER AIDED DESIGN  
COMPUTER AIDED MANUFACTURING  
COMPUTER AIDED MAPPING  
COMPUTER VISION  
MAN MACHINE SYSTEMS  
MANIPULATORS  
ROBOTS  
TELEOPERATORS  
VOICE CONTROL

## NASA THESAURUS SUPPLEMENT (PART 1)

#### ROMANIA

- UF RUMANIA  
GS NATIONS  
  . ROMANIA  
RT BLACK SEA  
CENTRAL EUROPE  
EUROPE

#### ROSAT MISSION

- GS OBSERVATORIES  
  . ASTRONOMICAL OBSERVATORIES  
  . . ROSAT MISSION  
  SATELLITES  
  . ARTIFICIAL SATELLITES  
  . . ROSAT MISSION  
  . . . EARTH SATELLITES  
  . . . ROSAT MISSION  
RT SPACEBORNE ASTRONOMY  
SPACEBORNE TELESCOPES  
X RAY SOURCES  
X RAY TELESCOPES

### • ROTARY ENGINES

- GS ENGINES  
  . INTERNAL COMBUSTION ENGINES  
  . . ROTARY ENGINES  
  . . . WANKEL ENGINES  
RT AIRCRAFT ENGINES  
AUTOMOBILE ENGINES  
PISTON ENGINES

#### ROTOR BODY INTERACTIONS

- RT AERODYNAMIC CHARACTERISTICS  
AERODYNAMIC CONFIGURATIONS  
HELICOPTER DESIGN  
ROTOR AERODYNAMICS

### • RUMANIA

- USE ROMANIA

## S

#### SAND CASTING

- GS FORMING TECHNIQUES  
  . CASTING  
  . . SAND CASTING  
RT MOLDING MATERIALS  
SANDS

### • SATELLITE DOPPLER POSITIONING

- RT DOPPLER EFFECT  
DOPPLER NAVIGATION  
DOPPLER RADAR  
GEODESY  
GEODETIC ACCURACY  
GEODETIC COORDINATES  
GEODETIC SATELLITES  
GEODETIC SURVEYS  
POLYSTATION DOPPLER TRACKING  
SYSTEM  
POSITIONING  
SATELLITE TRACKING  
TRACKING (POSITION)

#### SATELLITE IMAGERY

- RT ATMOSPHERIC CORRECTION  
IMAGE ANALYSIS  
IMAGERY  
IMAGING TECHNIQUES  
SATELLITE OBSERVATION  
SATELLITE-BORNE PHOTOGRAPHY  
VEGETATIVE INDEX

### • SCANDINAVIA

- RT DENMARK  
FINLAND  
NORWAY  
SWEDEN

### • SCARPS

- USE ESCARPMENTS

#### SDV

- USE SHUTTLE DERIVED VEHICLES

#### SEASAT 1

- GS SATELLITES  
  . ARTIFICIAL SATELLITES  
  . . SEASAT SATELLITES  
  . . . SEASAT 1

**SEASAT 1-(CONT.)**

. EARTH SATELLITES  
 . . SEASAT SATELLITES  
 . . . SEASAT 1  
 RT LANDSAT SATELLITES  
 NASA PROGRAMS  
 OCEANOGRAPHY  
 PROGRAMS  
 SEASAT-B SATELLITE

**SELECTIVE SURFACES**

UF SOLAR SELECTIVE COATINGS  
 RT ENERGY ABSORPTION FILMS  
 SELECTIVITY  
 SOLAR COLLECTORS  
 SOLAR ENERGY ABSORBERS

**• SELF SHADOWING**

RT LARGE SPACE STRUCTURES  
 SHADOWS  
 SOLAR ARRAYS

**SEO (INDIAN SPACECRAFT)**

USE INDIAN SPACECRAFT

**SFAR**

USE SOUND FIXING AND RANGING

**SHELL ANODES**

GS ELECTRODES  
 . ANODES  
 . . SHELL ANODES  
 RT HEAT MEASUREMENT

**SHIP TO SHORE COMMUNICATION**

GS TELECOMMUNICATION  
 . COMMUNICATION  
 . . SHIP TO SHORE COMMUNICATION  
 RT DATA TRANSMISSION  
 RADIO COMMUNICATION  
 SHIPS  
 TELEMETRY

**SHORT CIRCUIT CURRENTS**

GS ELECTRIC CURRENT  
 . SHORT CIRCUIT CURRENTS  
 RT OPEN CIRCUIT VOLTAGE  
 PHOTOVOLTAIC CELLS  
 SHORT CIRCUITS  
 SOLAR CELLS  
 VOLT-AMPERE CHARACTERISTICS

**SHUTTLE DERIVED VEHICLES**

UF SDV  
 GS MANNED SPACECRAFT  
 . SHUTTLE DERIVED VEHICLES  
 RT SPACE SHUTTLE ORBITERS  
 SPACE SHUTTLES  
 ∞SPACECRAFT  
 SPACECRAFT DESIGN

**• SOBOLEV SPACE**

GS ALGEBRA  
 . VECTOR SPACES  
 . . HILBERT SPACE  
 . . . BANACH SPACE  
 . . . . SOBOLEV SPACE  
 ANALYSIS (MATHEMATICS)  
 . FUNCTION SPACE  
 . . HILBERT SPACE  
 . . . BANACH SPACE  
 . . . . SOBOLEV SPACE  
 . FUNCTIONAL ANALYSIS  
 . . HILBERT SPACE  
 . . . BANACH SPACE  
 . . . . SOBOLEV SPACE  
 RT BOUNDARY VALUE PROBLEMS  
 EUCLIDEAN GEOMETRY

**SOFAR**

USE SOUND FIXING AND RANGING

**SOFTWARE ENGINEERING**

GS SOFTWARE ENGINEERING  
 . COMPUTER PROGRAMMING  
 . . ASSEMBLER ROUTINES  
 . . LANGUAGE PROGRAMMING  
 . . LOGIC PROGRAMMING  
 . . MICROPROGRAMMING  
 . . MULTIPROGRAMMING  
 . . ON-LINE PROGRAMMING  
 . . PARALLEL PROGRAMMING  
 . . SYMBOLIC PROGRAMMING  
 RT COMPUTER PROGRAMS

**SOFTWARE ENGINEERING-(CONT.)**

COMPUTER SYSTEMS DESIGN  
 COMPUTER SYSTEMS PROGRAMS  
 DATA BASES  
 SOFTWARE TOOLS  
 SYSTEMS ENGINEERING

**SOFTWARE TOOLS**

RT ARCHITECTURE (COMPUTERS)  
 COMPUTER PROGRAMMING  
 COMPUTER PROGRAMS  
 COMPUTER SYSTEMS DESIGN  
 COMPUTER SYSTEMS PROGRAMS  
 DATA BASE MANAGEMENT SYSTEMS  
 PROGRAM VERIFICATION (COMPUTERS)  
 SOFTWARE ENGINEERING

**SOLAR BACKSCATTER UV SPECTROMETER**

GS MEASURING INSTRUMENTS  
 . SPECTROMETERS  
 . . SOLAR BACKSCATTER UV  
 SPECTROMETER  
 RT IRRADIANCE  
 SATELLITE-BORNE INSTRUMENTS

**• SOLAR LASERS**

USE SOLAR-PUMPED LASERS

**SOLAR OPTICAL TELESCOPE**

UF SOT  
 GS TELESCOPES  
 . SPACEBORNE TELESCOPES  
 . . SOLAR OPTICAL TELESCOPE  
 RT ASTRONOMICAL TELESCOPES  
 SOLAR INSTRUMENTS  
 SOLAR PHYSICS

**SOLAR PLANETARY INTERACTIONS**

GS SOLAR PLANETARY INTERACTIONS  
 . SOLAR TERRESTRIAL INTERACTIONS  
 RT MAGNETIC DISTURBANCES  
 MAGNETOSPHERE  
 PLANETARY ATMOSPHERES  
 PLANETARY MAGNETIC FIELDS  
 PLASMA INTERACTIONS  
 SOLAR ACTIVITY  
 SOLAR ACTIVITY EFFECTS  
 SOLAR CORPUSCULAR RADIATION  
 SOLAR WIND  
 SOLAR WIND VELOCITY

**SOLAR RECEIVERS**

USE SOLAR COLLECTORS

**SOLAR SELECTIVE COATINGS**

USE SELECTIVE SURFACES

**SOLAR THERMAL ELECTRIC POWER PLANTS**

GS ELECTRIC POWER PLANTS  
 . SOLAR THERMAL ELECTRIC POWER  
 PLANTS  
 RT ∞POWER PLANTS  
 SOLAR ENERGY  
 THERMAL ENERGY

**• SOLAR-PUMPED LASERS**

UF SOLAR LASERS  
 GS STIMULATED EMISSION DEVICES  
 . LASERS  
 . . SOLAR-PUMPED LASERS  
 RT LASER PUMPING  
 OPTICAL PUMPING  
 SOLAR ENERGY CONVERSION  
 SOLAR RADIATION

**SOLRAD 10 SATELLITE**

USE EXPLORER 44 SATELLITE

**SONIC FATIGUE**

USE ACOUSTIC FATIGUE

**SOT**

USE SOLAR OPTICAL TELESCOPE

**SOUND FIXING AND RANGING**

UF SFAR  
 SOFAR  
 RT SOUND RANGING  
 SOUND TRANSMISSION  
 UNDERWATER ACOUSTICS

**SPACE COMMERCIALIZATION**

RT AEROSPACE INDUSTRY

**SPACE COMMERCIALIZATION-(CONT.)**

COMMERCIAL SPACECRAFT  
 COMMUNICATION SATELLITES  
 ∞MICROGRAVITY APPLICATIONS  
 SPACE INDUSTRIALIZATION  
 SPACE MANUFACTURING  
 SPACE PROCESSING  
 SPACECRAFT LAUNCHING  
 TECHNOLOGY TRANSFER

**• SPACE HABITATS**

RT AEROSPACE ENVIRONMENTS  
 CLOSED ECOLOGICAL SYSTEMS  
 LIFE SUPPORT SYSTEMS  
 SPACE COLONIES  
 SPACE STATIONS  
 SPACECREWS

**• SPACE OPERATIONS CENTER (NASA)**

GS MANNED SPACECRAFT  
 . SPACE STATIONS  
 . . ORBITAL SPACE STATIONS  
 . . . SPACE OPERATIONS CENTER  
 (NASA)  
 STATIONS  
 . SPACE STATIONS  
 . . ORBITAL SPACE STATIONS  
 . . . SPACE OPERATIONS CENTER  
 (NASA)  
 RT LARGE SPACE STRUCTURES  
 ORBITAL ASSEMBLY  
 ORBITAL SERVICING

**• SPACE SHUTTLE ORBITER 103**

GS TRANSPORTATION  
 . SPACE TRANSPORTATION  
 . . SPACE TRANSPORTATION SYSTEM  
 . . . SPACE SHUTTLE ORBITERS  
 . . . . SPACE SHUTTLE ORBITER 103  
 RT MANNED SPACE FLIGHT  
 RECOVERABLE SPACECRAFT  
 REUSABLE SPACECRAFT  
 ∞SPACECRAFT

**• SPACE SHUTTLE ORBITER 104**

GS TRANSPORTATION  
 . SPACE TRANSPORTATION  
 . . SPACE TRANSPORTATION SYSTEM  
 . . . SPACE SHUTTLE ORBITERS  
 . . . . SPACE SHUTTLE ORBITER 104  
 RT MANNED SPACE FLIGHT  
 RECOVERABLE SPACECRAFT  
 REUSABLE SPACECRAFT  
 ∞SPACECRAFT

**• SPACECRAFT EQUIPMENT**

GS ONBOARD EQUIPMENT  
 . SPACECRAFT EQUIPMENT  
 . . SPACECRAFT ELECTRONIC  
 EQUIPMENT  
 RT ∞EQUIPMENT  
 SPACECRAFT INSTRUMENTS

**• SPACECRAFT MAINTENANCE**

GS MAINTENANCE  
 . SPACECRAFT MAINTENANCE  
 RT CHECKOUT  
 PRELAUNCH TESTS  
 SPACE VEHICLE CHECKOUT PROGRAM  
 SPACECRAFT RELIABILITY  
 TURNAROUND (STS)

**• SPECTRAL METHODS**

RT COMPUTATIONAL FLUID DYNAMICS  
 DIFFERENTIAL EQUATIONS  
 SPECTRUM ANALYSIS

**SPECTROPHOTOVOLTAICS**

RT ENERGY CONVERSION EFFICIENCY  
 ENERGY SPECTRA  
 SOLAR CELLS  
 SOLAR COLLECTORS

**• SPEECHES**

USE LECTURES

**SPRING (SEASON)**

GS SEASONS  
 . SPRING (SEASON)  
 RT AUTUMN  
 SUMMER  
 WINTER



## STATIC CHARACTERISTICS

### • STATIC CHARACTERISTICS

SN (EXCLUDES STATICS)  
GS **STATIC CHARACTERISTICS**  
  . STATIC AERODYNAMIC CHARACTERISTICS  
RT **STATIC LOADS**  
  . STATIC STABILITY  
  . STATIC TESTS

#### STATIC MODELS

GS **MODELS**  
  . **STATIC MODELS**  
RT **APPROXIMATION**  
  . DYNAMIC MODELS  
  . OPTIMIZATION

### • STELLAR ACTIVITY

GS **STELLAR ACTIVITY**  
  . SOLAR ACTIVITY  
  . . FACULAE  
  . . SOLAR PROMINENCES  
  . . SOLAR STORMS  
  . . SPICULES  
  . . STELLAR FLARES  
  . . . SOLAR FLARES  
  . . SUNSPOTS  
  . . STARSPOTS  
RT **FLARE STARS**  
  . FLARES  
  . MAGNETIC DISTURBANCES  
  . MAGNETOHYDRODYNAMICS  
  . PHOTOSPHERE  
  . STARS  
  . STELLAR LUMINOSITY  
  . STELLAR MAGNETIC FIELDS  
  . STELLAR MASS EJECTION  
  . STELLAR OSCILLATIONS  
  . STELLAR RADIATION  
  . SUNSPOT CYCLE

#### STELLAR COLOR

RT **STELLAR LUMINOSITY**  
  . STELLAR MAGNITUDE  
  . STELLAR SPECTRA  
  . STELLAR SPECTROPHOTOMETRY

### • STELLAR COMPOSITION

GS **COMPOSITION (PROPERTY)**  
  . CHEMICAL COMPOSITION  
  . . **STELLAR COMPOSITION**  
RT **ABUNDANCE**  
  . B STARS  
  . CARBON STARS  
  . STARS  
  . STELLAR MODELS  
  . STELLAR STRUCTURE

### • STELLAR CORES

GS **CORES**  
  . **STELLAR CORES**  
RT **ASTROPHYSICS**  
  . GRAVITATIONAL COLLAPSE  
  . LUNAR CORE  
  . PLANETARY CORES  
  . STARS  
  . STELLAR CORONAS  
  . STELLAR STRUCTURE

#### STEREOPHONICS

RT **ACOUSTICS**  
  . HEARING

#### STRANGE ATTRACTORS

RT **FRACTALS**  
  . IMBEDDINGS (MATHEMATICS)  
  . ITERATIVE SOLUTION  
  . NONLINEAR SYSTEMS  
  . NUMERICAL STABILITY  
  . PERTURBATION THEORY  
  . . PHYSICS  
  . . RECURSIVE FUNCTIONS  
  . . STATE VECTORS  
  . . THEORETICAL PHYSICS  
  . . TURBULENCE

#### STRATEGIC MATERIALS

RT **CHROMIUM**  
  . COBALT  
  . MANGANESE  
  . . MATERIALS  
  . . METALS  
  . . STOCKPILING  
  . . TECHNOLOGY ASSESSMENT

#### SUPERCOMPUTERS

GS **SUPERCOMPUTERS**  
  . CRAY COMPUTERS

### • SUPERCRITICAL AIRFOILS

GS **AIRFOILS**  
  . **SUPERCRITICAL AIRFOILS**  
  . . SUPERCRITICAL WINGS  
RT **AIRFOIL PROFILES**

#### SUPERLATTICES

GS **CRYSTAL LATTICES**  
  . **SUPERLATTICES**  
  . SEMICONDUCTORS (MATERIALS)  
  . **SUPERLATTICES**  
RT **CRYSTAL DISLOCATIONS**  
  . CRYSTAL STRUCTURE  
  . LATTICE PARAMETERS

#### SURFACE NOISE INTERACTIONS

RT **ACOUSTIC EXCITATION**  
  . ACOUSTIC SCATTERING  
  . AEROACOUSTICS  
  . AERODYNAMIC NOISE  
  . TURBULENCE

#### SWATH WIDTH

RT **AGRICULTURAL AIRCRAFT**  
  . FLIGHT PATHS  
  . REMOTE SENSING  
  . SATELLITE OBSERVATION

### • SYMBIOTIC STARS

GS **CELESTIAL BODIES**  
  . STARS  
  . . BINARY STARS  
  . . . **SYMBIOTIC STARS**  
  . . . HOT STARS  
  . . . BLUE STARS  
  . . . **SYMBIOTIC STARS**  
  . . . PECULIAR STARS  
  . . . **SYMBIOTIC STARS**  
  . . . VARIABLE STARS  
  . . . **SYMBIOTIC STARS**  
RT **ABSORPTION SPECTRA**  
  . ECLIPSING BINARY STARS  
  . EMISSION SPECTRA  
  . FLARE STARS  
  . M STARS  
  . NOVAE  
  . STELLAR ENVELOPES  
  . STELLAR MASS ACCRETION  
  . STELLAR OSCILLATIONS  
  . STELLAR SPECTRA  
  . STELLAR TEMPERATURE

## T

### • TAGN

UF **TRIAMINO GUANIDINENITRATE**  
GS **OXIDIZERS**  
  . ROCKET OXIDIZERS  
  . . **TAGN**  
  . PROPELLANTS  
  . . ROCKET PROPELLANTS  
  . . **TAGN**  
RT **EXPLOSIVES**

#### TAIWAN

UF **REPUBLIC OF CHINA**  
GS **NATIONS**  
  . **TAIWAN**  
RT **ASIA**  
  . CHINA  
  . CHINESE SPACE PROGRAMS  
  . CHINESE SPACECRAFT  
  . HONG KONG

### • TATB

UF **TRIAMINOTRINITROBENZENE**  
GS **EXPLOSIVES**  
  . **TATB**  
  . PROPELLANTS  
  . . ROCKET PROPELLANTS  
  . . **TATB**  
RT **ROCKET OXIDIZERS**

### • TAYLOR-GOERTLER INSTABILITY

USE **GOERTLER INSTABILITY**

## NASA THESAURUS SUPPLEMENT (PART 1)

### • TEARING MODES (PLASMAS)

RT **BALLOONING MODES**  
  . MODES

#### TELEOPERATOR MANEUVERING SYSTEM

USE **TELEOPERATORS**

#### TELESCOPING STRUCTURES

USE **FOLDING STRUCTURES**

#### TEMPERATURE RATIO

RT **DATA CORRELATION**  
  . HEAT TRANSFER  
  . RATIOS  
  . TEMPERATURE

### • THERMAL ANALYSIS

UF **DTA (ANALYSIS)**  
RT **ANALYZING**  
  . HEAT TRANSMISSION  
  . TEMPERATURE GRADIENTS  
  . TEMPERATURE PROFILES

### • ∞ THRUSTORS

SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)*  
RT **ION ENGINES**  
  . ROCKET ENGINES

### • TIME TEMPERATURE PARAMETER

RT **AGING (METALLURGY)**  
  . AUSTENITIC STAINLESS STEELS  
  . EMBRITTLEMENT  
  . FRACTURE MECHANICS  
  . LONG TERM EFFECTS  
  . METALLOGRAPHY  
  . PRECIPITATION HARDENING  
  . TEMPERATURE EFFECTS

#### TIP VANES

GS **ROTATING BODIES**  
  . ROTORS  
  . . **TIP VANES**  
  . . TURBOMACHINERY  
  . . TURBINES  
  . . WIND TURBINES  
  . . . **TIP VANES**

### • TOPPING CYCLE ENGINES

RT **AIRCRAFT ENGINES**  
  . LIQUID HYDROGEN  
  . PROPULSION SYSTEM CONFIGURATIONS

#### TRANSIT NAVIGATION SYSTEM

GS **SATELLITE NAVIGATION SYSTEMS**  
  . **TRANSIT NAVIGATION SYSTEM**  
RT **NASA PROGRAMS**  
  . NAVIGATION SATELLITES  
  . NOVA SATELLITES  
  . TRANSIT SATELLITES

### • TRIAMINO GUANIDINENITRATE

USE **TAGN**

### • TRIAMINOTRINITROBENZENE

USE **TATB**

#### TRIBOLUMINESCENCE

GS **DECAY**  
  . EMISSION  
  . . LIGHT EMISSION  
  . . . LUMINESCENCE  
  . . . . PHOTOLUMINESCENCE  
  . . . . . **TRIBOLUMINESCENCE**  
RT **FLUORESCENCE**  
  . FRICTION  
  . MECHANICAL PROPERTIES  
  . PHOTOLUMINESCENT BANDS  
  . STRESSES  
  . TRIBOLOGY

### • TYROSINE

GS **ACIDS**  
  . AMINO ACIDS  
  . . **TYROSINE**  
  . . ORGANIC COMPOUNDS  
  . . AMINO ACIDS  
  . . . **TYROSINE**  
RT **ENZYME ACTIVITY**  
  . LIVER

## U

## ULTRALIGHT AIRCRAFT

RT ∞ AIRCRAFT  
HANG GLIDERS  
LIGHT AIRCRAFT  
∞ WINGED VEHICLES

## UNIFIED FIELD THEORY

GS FIELD THEORY (PHYSICS)  
. UNIFIED FIELD THEORY  
RT EINSTEIN EQUATIONS  
ELECTROMAGNETIC FIELDS  
ELECTROMAGNETIC INTERACTIONS  
ELECTROMAGNETISM  
GRAVITATION THEORY  
GRAVITATIONAL FIELDS  
PARTICLE THEORY  
PLASMA PHYSICS  
RELATIVITY  
THEORETICAL PHYSICS

## • UNITED STATES

UF USA (UNITED STATES)  
GS NATIONS  
. UNITED STATES  
. ALABAMA  
. ALASKA  
. ARIZONA  
. ARKANSAS  
. CALIFORNIA  
. COLORADO  
. CONNECTICUT  
. DELAWARE  
. FLORIDA  
. GEORGIA  
. HAWAII  
. IDAHO  
. ILLINOIS  
. INDIANA  
. IOWA  
. KANSAS  
. KENTUCKY  
. LOUISIANA  
. MAINE  
. MARYLAND  
. MASSACHUSETTS  
. MICHIGAN  
. MINNESOTA  
. MISSISSIPPI  
. MISSOURI  
. MONTANA  
. NEBRASKA  
. NEVADA  
. NEW HAMPSHIRE  
. NEW JERSEY  
. NEW MEXICO  
. NEW YORK  
. NORTH CAROLINA  
. NORTH DAKOTA  
. OHIO  
. OKLAHOMA  
. OREGON  
. PENNSYLVANIA  
. RHODE ISLAND  
. SOUTH CAROLINA  
. SOUTH DAKOTA  
. TENNESSEE  
. TEXAS  
. UTAH  
. VERMONT  
. VIRGINIA  
. WASHINGTON  
. WEST VIRGINIA  
. WISCONSIN  
. WYOMING  
RT ALEUTIAN ISLANDS (US)  
CASCADE RANGE (CA-OR-WA)  
CENTRAL ATLANTIC REGION (US)  
DISTRICT OF COLUMBIA  
GREAT LAKES (NORTH AMERICA)  
GREAT PLAINS CORRIDOR (NORTH AMERICA)  
GUAM  
INTERNATIONAL FIELD YEAR FOR GREAT LAKES  
INTERNATIONAL HYDROLOGICAL DECADE  
MISSOURI RIVER (US)  
NEW ENGLAND (US)  
NORTH AMERICA  
PACIFIC NORTHWEST (US)  
PANAMA CANAL ZONE  
PUERTO RICO  
ROCKY MOUNTAINS (NORTH AMERICA)

## UNITED STATES-(CONT.)

SOUTHERN CALIFORNIA  
VIRGIN ISLANDS

## US-2A AIRCRAFT

USE S-2 AIRCRAFT

## V

## VCO

USE VOLTAGE CONTROLLED OSCILLATORS

## VEGETATIVE INDEX

RT AGRISTARS PROJECT  
ATMOSPHERIC ATTENUATION  
ATMOSPHERIC EFFECTS  
ATMOSPHERIC OPTICS  
ATMOSPHERIC SCATTERING  
CANOPIES (VEGETATION)  
COLOR  
CORRECTION  
CROP IDENTIFICATION  
CROP INVENTORIES  
IMAGE ENHANCEMENT  
IMAGING TECHNIQUES  
MULTISPECTRAL BAND SCANNERS  
RADIOMETRIC CORRECTION  
REFLECTANCE  
REMOTE SENSING  
SATELLITE IMAGERY  
SATELLITE OBSERVATION  
SPECTRAL REFLECTANCE  
VEGETATION GROWTH

## VERTICAL ATTITUDE TAKEOFF-LANDING

## AIRCRAFT

USE VATOL AIRCRAFT

## VERY LARGE SCALE INTEGRATION

UF VLSI  
GS CIRCUITS  
. INTEGRATED CIRCUITS  
. . . VERY LARGE SCALE INTEGRATION  
RT ARCHITECTURE (COMPUTERS)  
CHIPS (ELECTRONICS)  
LARGE SCALE INTEGRATION

## • VIDEO SIGNALS

RT SIGNAL PROCESSING  
SIGNAL TRANSMISSION  
∞ SIGNALS  
VIDEO COMMUNICATION  
VIDEO DATA

## VIRTUAL MEMORY SYSTEMS

RT COMPUTER SYSTEMS DESIGN  
DATA MANAGEMENT  
DATA STORAGE  
MAGNETIC STORAGE

## VLSI

USE VERY LARGE SCALE INTEGRATION

## VOLTAGE CONTROLLED OSCILLATORS

UF VCO  
GS OSCILLATORS  
. VOLTAGE CONTROLLED OSCILLATORS  
RT CIRCUITS  
ELECTRIC CONTROL  
ELECTRIC NETWORKS  
FREQUENCY MODULATION  
FREQUENCY STABILITY  
MICROWAVE OSCILLATORS  
VOLTAGE REGULATORS

## VORTEX PRECESSION

RT FLOW VELOCITY  
FLOWMETERS  
PRECESSION  
VELOCITY MEASUREMENT  
VORTICES

## W

## WASTE HEAT

RT ENERGY TECHNOLOGY  
HEAT EXCHANGERS

## XENON CHLORIDE LASERS

## WASTE HEAT-(CONT.)

HEAT PUMPS  
WASTE ENERGY UTILIZATION

## WESTERN HEMISPHERE

RT EARTH (PLANET)  
EASTERN HEMISPHERE  
GEOGRAPHY

## WHIRL TOWERS

RT HELICOPTER DESIGN  
HOVERING  
HOVERING STABILITY  
PARACHUTES  
ROTARY WINGS  
ROTOR AERODYNAMICS  
SPIN TESTS

## WOLFRAM

USE TUNGSTEN

## X

## X RAY TIMING EXPLORER

GS SATELLITES  
. ARTIFICIAL SATELLITES  
. EXPLORER SATELLITES  
. . . X RAY TIMING EXPLORER  
. EARTH SATELLITES  
. EXPLORER SATELLITES  
. . . X RAY TIMING EXPLORER

## XENON CHLORIDE LASERS

GS STIMULATED EMISSION DEVICES  
. LASERS  
. GAS LASERS  
. . . XENON CHLORIDE LASERS  
. RARE GAS-HALIDE LASERS  
. . . XENON CHLORIDE LASERS  
RT ELECTRON TRANSITIONS  
EXCIMER LASERS  
LASER MATERIALS  
LASER OUTPUTS  
ULTRAVIOLET LASERS

# NASA THESAURUS SUPPLEMENT

## PART 2 ACCESS VOCABULARY

### A

**A-310 AIRCRAFT**

**A-320 AIRCRAFT**

**Access, Demand Assignment Multiple**  
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

**ACCOUNTING**

**ACCRETION DISKS**

**Accuracy, Geodetic**  
USE GEODETIC ACCURACY

**Accuracy, Geometric**  
USE GEOMETRIC ACCURACY

**ACEE PROGRAM**

**Activity, Stellar**  
USE STELLAR ACTIVITY

**ADA (PROGRAMMING LANGUAGE)**

**Adenosine Monophosphate, Cyclic**  
USE CYCLIC AMP

**AEROASSIST**

**AEROBRAKING**

**AEROCAPTURE**

**Aerodynamic And Struct Test, Drones For**  
USE DAST PROGRAM

**Aerodynamics, Interactional**  
USE INTERACTIONAL AERODYNAMICS

**AEROELASTIC RESEARCH WINGS**

**AEROMAGNETISM**

**AEROMANEUVERING**

**AGROPHYSICAL UNITS**

**Aided Design, Computer**  
USE COMPUTER AIDED DESIGN

**Aided Manufacturing, Computer**  
USE COMPUTER AIDED MANUFACTURING

**Aided Mapping, Computer**  
USE COMPUTER AIDED MAPPING

**Air Pollution, Indoor**  
USE INDOOR AIR POLLUTION

**AIR START**

**Aircraft, A-310**  
USE A-310 AIRCRAFT

**Aircraft, A-320**  
USE A-320 AIRCRAFT

**Aircraft, Electric**  
USE FLY BY WIRE CONTROL

**Aircraft Energy Efficiency Program**  
USE ACEE PROGRAM

**Aircraft, Highly Maneuverable**  
USE HIGHLY MANEUVERABLE AIRCRAFT

**AIRCRAFT POWER SUPPLIES**

**Aircraft, Ultralight**  
USE ULTRALIGHT AIRCRAFT

**Aircraft, US-2A**  
USE S-2 AIRCRAFT

**Aircraft, Vertical Attitude Takeoff-Landing**  
USE VATOL AIRCRAFT

**Airfoils, Supercritical**  
USE SUPERCRITICAL AIRFOILS

**ALBERTA**

**Alcock Comet, Iras-Araki-**  
USE IRAS-ARAKI-ALCOCK COMET

**ALLENDE METEORITE**

**Amp, Cyclic**  
USE CYCLIC AMP

**Analysis, Cluster**  
USE CLUSTER ANALYSIS

**Analysis, Data Flow**  
USE DATA FLOW ANALYSIS

**Analysis, Gas Path**  
USE GAS PATH ANALYSIS

**Analysis, Image**  
USE IMAGE ANALYSIS

**Analysis, Principal Components**  
USE PRINCIPAL COMPONENTS ANALYSIS

**Analysis, Thermal**  
USE THERMAL ANALYSIS

**ANIK SATELLITES**

**Anode Microchannel Arrays, Multi-**  
USE MULTI-ANODE MICROCHANNEL ARRAYS

**Anodes, Shell**  
USE SHELL ANODES

**Anomalies, Geothermal**  
USE GEOTHERMAL ANOMALIES

**Antennas, Multibeam**  
USE MULTIBEAM ANTENNAS

**Antennas, Plasma**  
USE PLASMA ANTENNAS

**Antistatic Devices**  
USE STATIC DISCHARGERS

**APL (PROGRAMMING LANGUAGE)**

**Applications, Microgravity**  
USE MICROGRAVITY APPLICATIONS

**ARABSAT**

**Araki-Alcock Comet, Iras-**  
USE IRAS-ARAKI-ALCOCK COMET

**ARC CLOUDS**

**ARIES SOUNDING ROCKET**

**Arrays, Multi-Anode Microchannel**  
USE MULTI-ANODE MICROCHANNEL ARRAYS

**Arrest, Crack**  
USE CRACK ARREST

**Assignment Multiple Access, Demand**  
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

**ASTRONOMICAL SATELLITES**

**(Astronomy), Local Group**  
USE LOCAL GROUP (ASTRONOMY)

**ASYMPTOTIC PROPERTIES**

**Atmosphere, Lunar**  
USE LUNAR ATMOSPHERE

**Atmospheres, Neutral**  
USE NEUTRAL ATMOSPHERES

**ATMOSPHERIC CORRECTION**

**Atmospheric Loading**  
USE POLLUTION TRANSPORT

**Attitude Takeoff-Landing Aircraft, Vertical**  
USE VATOL AIRCRAFT

**Attractors, Strange**  
USE STRANGE ATTRACTORS

**AUDIO DATA**

**AUDIO SIGNALS**

**AUTOMATED TRANSIT VEHICLES**

**AUTUMN**

**AWARDS**

### B

**B, Gravity Probe**  
USE GRAVITY PROBE B

**B Satellite, Magsat**  
USE MAGSAT B SATELLITE

**Backscatter UV Spectrometer, Solar**  
USE SOLAR BACKSCATTER UV SPECTROMETER

**BACKWARD DIFFERENCING**

**BACKWARD FACING STEPS**

**BAHAMAS**

**BALLOONING MODES**

**BAND RATIOING**

**BANDSTOP FILTERS**

**BARYON RESONANCE**

**Bases, Numerical Data**  
USE NUMERICAL DATA BASES

## Bearings, Magnetic

**Bearings, Magnetic**  
USE MAGNETIC BEARINGS

**Benard Convection, Rayleigh-**  
USE RAYLEIGH-BENARD CONVECTION

## BENIN

**Beta Interactions**  
USE WEAK INTERACTIONS (FIELD THEORY)

## BIOFEEDBACK

**(Biology), Desynchronization**  
USE DESYNCHRONIZATION (BIOLOGY)

## BIOT NUMBER

**Biphenyls, Polybrominated**  
USE POLYBROMINATED BIPHENYLS

**Bistability, Optical**  
USE OPTICAL BISTABILITY

## BIT ERROR RATE

**Body Interactions, Rotor-**  
USE ROTOR BODY INTERACTIONS

**Braking, Aero**  
USE AEROBRAKING

## BRAZILIAN SPACE PROGRAM

## BRITISH COLUMBIA

**Bruceston Test**  
USE STATISTICAL TESTS

**Brunswick, New**  
USE NEW BRUNSWICK

## BRUNT-VAISALA FREQUENCY

**Bubbles, Plasma**  
USE PLASMA BUBBLES

## BURN-IN

**Burning, Hole**  
USE HOLE BURNING

**Business Management**  
USE INDUSTRIAL MANAGEMENT

# C

**CAD (Design)**  
USE COMPUTER AIDED DESIGN

**CAM (Manufacturing)**  
USE COMPUTER AIDED MANUFACTURING

**Cambodia**  
USE KAMPUCHEA

## CANADIAN SPACECRAFT

## CARIBBEAN REGION

**Carrier, European Retrievable**  
USE EURECA (ESA)

**Carrington Rotation**  
USE SOLAR ROTATION

**Casting, Sand**  
USE SAND CASTING

## CATAclysmic Variables

## CAVITONS

## CDC CYBER 205 COMPUTER

**Center (NASA), Space Operations**  
USE SPACE OPERATIONS CENTER (NASA)

## CERAMIC MATRIX COMPOSITES

## CHANGE DETECTION

**Characteristics, Static**  
USE STATIC CHARACTERISTICS

**Chemistry, Computational**  
USE COMPUTATIONAL CHEMISTRY

**Chloride Lasers, Xenon**  
USE XENON CHLORIDE LASERS

**Chromatography, Gel Permeation**  
USE LIQUID CHROMATOGRAPHY

**Circuit Currents, Short**  
USE SHORT CIRCUIT CURRENTS

## CIRCULAR WAVEGUIDES

## CIRCULATION DISTRIBUTION

**City (NY), New York**  
USE NEW YORK CITY (NY)

**Clouds, Arc**  
USE ARC CLOUDS

**Clouds, Ophiuchi**  
USE OPHIUCHI CLOUDS

## CLUSTER ANALYSIS

**Coatings, Solar Selective**  
USE SELECTIVE SURFACES

**Coefficients, Drag**  
USE DRAG COEFFICIENTS

**Color, Stellar**  
USE STELLAR COLOR

**Columbia, British**  
USE BRITISH COLUMBIA

**Comet, Encke**  
USE ENCKE COMET

**Comet, Iras-Araki-Alcock**  
USE IRAS-ARAKI-ALCOCK COMET

## COMMAND LANGUAGES

## COMMERCIAL SPACECRAFT

**Commercialization, Space**  
USE SPACE COMMERCIALIZATION

## COMMONALITY

**Communication, Ship To Shore**  
USE SHIP TO SHORE COMMUNICATION

**Communication Systems, Mobile**  
USE MOBILE COMMUNICATION SYSTEMS

**Components Analysis, Principal**  
USE PRINCIPAL COMPONENTS ANALYSIS

**Composites, Ceramic Matrix**  
USE CERAMIC MATRIX COMPOSITES

**Composition, Stellar**  
USE STELLAR COMPOSITION

## COMPULSATORS

## COMPUTATIONAL CHEMISTRY

## COMPUTATIONAL GRIDS

## COMPUTER AIDED DESIGN

## COMPUTER AIDED MANUFACTURING

## COMPUTER AIDED MAPPING

**Computer, CDC Cyber 205**  
USE CDC CYBER 205 COMPUTER

## NASA THESAURUS SUPPLEMENT (PART 2)

**Computer Systems, Embedded**  
USE EMBEDDED COMPUTER SYSTEMS

**Computerized Design**  
USE COMPUTER AIDED DESIGN

**Computers, Cray**  
USE CRAY COMPUTERS

**(Computers), Memory**  
USE MEMORY (COMPUTERS)

**Computers, Micro**  
USE MICROCOMPUTERS

**Computers, Nova**  
USE NOVA COMPUTERS

**Computers, Optical**  
USE OPTICAL COMPUTERS

**Computers, Personal**  
USE PERSONAL COMPUTERS

**(Computers), Protocol**  
USE PROTOCOL (COMPUTERS)

## CONCURRENT PROCESSING

## CONDENSATION NUCLEI

## CONDENSERS (LIQUEFIERS)

## CONJUGATE GRADIENT METHOD

**Continental Margins**  
USE CONTINENTAL SHELVES

## CONTINUUM MODELING

**Controlled Oscillators, Voltage**  
USE VOLTAGE CONTROLLED OSCILLATORS

## CONTROLLED SYSTEMS DESIGN

**Controllers, Power Factor**  
USE POWER FACTOR CONTROLLERS

**Convection, Marangoni**  
USE MARANGONI CONVECTION

**Convection, Rayleigh-Benard**  
USE RAYLEIGH-BENARD CONVECTION

**Coolant Loss**  
USE LOSS OF COOLANT

**Coolant, Loss Of**  
USE LOSS OF COOLANT

**Coordinates, Cylindrical**  
USE CARTESIAN COORDINATES

**Cores, Stellar**  
USE STELLAR CORES

## COROTATION

**Correction, Atmospheric**  
USE ATMOSPHERIC CORRECTION

**Cosmic Rays, Galactic**  
USE GALACTIC COSMIC RAYS

## COSMOS 954 SATELLITE

## COSPAS

**Couplers, Directional**  
USE DIRECTIONAL COUPLERS

**Coupling, Mode**  
USE COUPLED MODES

## CRACK ARREST

## CRACK TIPS

## CRANK-NICHOLSON METHOD

**Cranked Wings**  
USE SWEPT WINGS

**CRAY COMPUTERS**

**Currents, Short Circuit**  
USE SHORT CIRCUIT CURRENTS

**Cusps, Polar**  
USE POLAR CUSPS

**Cyber 205 Computer, CDC**  
USE CDC CYBER 205 COMPUTER

**Cycle Engines, Topping**  
USE TOPPING CYCLE ENGINES

**Cyclic Adenosine Monophosphate**  
USE CYCLIC AMP

**CYCLIC AMP**

**Cylindrical Coordinates**  
USE CARTESIAN COORDINATES

**D**

**Dahomey**  
USE BENIN

**DAMA**  
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

**DAST PROGRAM**

**Data, Audio**  
USE AUDIO DATA

**Data Bases, Numerical**  
USE NUMERICAL DATA BASES

**DATA FLOW ANALYSIS****DATA INTEGRATION**

**(Data Processing), Frames**  
USE FRAMES (DATA PROCESSING)

**DATA SIMULATION****DATA STRUCTURES**

**Defense Meteorological Satellite Program**  
USE DMSP SATELLITES

**DEMAND ASSIGNMENT MULTIPLE ACCESS**

**Depth, Mixing**  
USE MIXING HEIGHT

**Derived Vehicles, Shuttle**  
USE SHUTTLE DERIVED VEHICLES

**DESERTIFICATION**

**(Design), CAD**  
USE COMPUTER AIDED DESIGN

**Design, Computer Aided**  
USE COMPUTER AIDED DESIGN

**Design, Controlled Systems**  
USE CONTROLLED SYSTEMS DESIGN

**Design, Experiment**  
USE EXPERIMENT DESIGN

**DESYNCHRONIZATION (BIOLOGY)**

**Detection, Change**  
USE CHANGE DETECTION

**Devices, Antistatic**  
USE STATIC DISCHARGERS

**Diagram, HR**  
USE HERTZSPRUNG-RUSSELL DIAGRAM

**DIDYMIUM**

**Differencing, Backward**  
USE BACKWARD DIFFERENCING

**DIFFERENTIAL ANALYZERS**

**Dikes (Geology)**  
USE ROCK INTRUSIONS

**DINING PHILOSOPHERS PROBLEM****DIRECTION FINDING****DIRECTIONAL COUPLERS****DIRECTORIES**

**Disks, Accretion**  
USE ACCRETION DISKS

**Disks, Optical**  
USE OPTICAL DISKS

**Disposal (In Space), Hazardous Material**  
USE HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

**DISTRIBUTED PROCESSING**

**Distribution, Circulation**  
USE CIRCULATION DISTRIBUTION

**DMSP SATELLITES**

**Doppler Positioning, Satellite**  
USE SATELLITE DOPPLER POSITIONING

**Double Stars**  
USE BINARY STARS

**DRAG COEFFICIENTS****DREDGING**

**Drones For Aerodynamic And Struct Test**  
USE DAST PROGRAM

**DWARF GALAXIES**

**Dwarf Stars, Red**  
USE RED DWARF STARS

**E**

**E, NOAA**  
USE NOAA 8 SATELLITE

**Earth Neighborhood, Origin Of Plasmas In**  
USE OPEN PROJECT

**EARTHNET****EASTERN HEMISPHERE**

**Edward Island, Prince**  
USE PRINCE EDWARD ISLAND

**Efficiency Program, Aircraft Energy**  
USE ACEE PROGRAM

**Efficiency Transport Program, Energy**  
USE ACEE PROGRAM

**Einstein Observatory**  
USE HEAO 2

**Electric Aircraft**  
USE FLY BY WIRE CONTROL

**ELECTRIC FURNACES**

**Electric Power Plants, Solar Thermal**  
USE SOLAR THERMAL ELECTRIC POWER PLANTS

**ELECTROCHROMISM****ELECTRODE MATERIALS**

**Electronics, Quantum**  
USE QUANTUM ELECTRONICS

**EMBEDDED COMPUTER SYSTEMS**

**Empennage**  
USE TAIL ASSEMBLIES

**ENCKE COMET**

**Energy Efficiency Program, Aircraft**  
USE ACEE PROGRAM

**Energy Efficiency Transport Program**  
USE ACEE PROGRAM

**Engineering, Software**  
USE SOFTWARE ENGINEERING

**Engines, Rotary**  
USE ROTARY ENGINES

**Engines, Topping Cycle**  
USE TOPPING CYCLE ENGINES

**Equipment, Spacecraft**  
USE SPACECRAFT EQUIPMENT

**Error Rate, Bit**  
USE BIT ERROR RATE

**(ESA), Eureka**  
USE EURECA (ESA)

**EURECA (ESA)**

**European Large Telecomm Satellite**  
USE L-SAT

**European Retrievable Carrier**  
USE EURECA (ESA)

**Exercise**  
USE PHYSICAL EXERCISE

**Exper, Feature Identification And Location**  
USE FEATURE IDENTIFICATION AND LOCATION  
EXPER

**EXPERIMENT DESIGN****EXPERT SYSTEMS**

**Explorer, Far UV Spectroscopic**  
USE FAR UV SPECTROSCOPIC EXPLORER

**Explorer, X Ray Timing**  
USE X RAY TIMING EXPLORER

**EXPLORER 44 SATELLITE****EXPLORER 46 SATELLITE**

**Extraction, Feature**  
USE PATTERN RECOGNITION

**F**

**Facing Steps, Backward**  
USE BACKWARD FACING STEPS

**Facing Steps, Rearward**  
USE BACKWARD FACING STEPS

**Factor Controllers, Power**  
USE POWER FACTOR CONTROLLERS

**FAR UV SPECTROSCOPIC EXPLORER****FASTING**

**Fatigue, Sonic**  
USE ACOUSTIC FATIGUE

**Fauna**  
USE ANIMALS

## Feature Extraction

**Feature Extraction**  
USE PATTERN RECOGNITION

## FEATURE IDENTIFICATION AND LOCATION EXPER

**Feedback, Bio**  
USE BIOFEEDBACK

**Field Theory, Unified**  
USE UNIFIED FIELD THEORY

**Filters, Bandstop**  
USE BANDSTOP FILTERS

**Finding, Direction**  
USE DIRECTION FINDING

**Fire Retardants**  
USE FLAME RETARDANTS

## FIRMWARE

## FISCHER-TROPSCH PROCESS

**Fixation, Nitrogen**  
USE NITROGENATION

**Fixing And Ranging, Sound**  
USE SOUND FIXING AND RANGING

## FLAPERONS

## FLAVOR (PARTICLE PHYSICS)

## FLIGHT MANAGEMENT SYSTEMS

## FLOAT ZONES

**Flow Analysis, Data**  
USE DATA FLOW ANALYSIS

## FLUID MANAGEMENT

## FLUID-SOLID INTERACTIONS

## FORMYL IONS

## FRACTALS

## FRAMES (DATA PROCESSING)

**Frequency, Brunt-Vaisala**  
USE BRUNT-VAISALA FREQUENCY

**Functions, Green's**  
USE GREEN'S FUNCTIONS

**Furnaces, Electric**  
USE ELECTRIC FURNACES

## G

## GALACTIC COSMIC RAYS

**Galaxies, Dwarf**  
USE DWARF GALAXIES

## GAS PATH ANALYSIS

**Gel Permeation Chromatography**  
USE LIQUID CHROMATOGRAPHY

## GEODETIC ACCURACY

## GEOGRAPHIC INFORMATION SYSTEMS

**(Geology), Dikes**  
USE ROCK INTRUSIONS

## GEOMETRIC ACCURACY

## GEOHERMAL ANOMALIES

## GIOTTO MISSION

## GOERTLER INSTABILITY

**Goertler Instability, Taylor-**  
USE GOERTLER INSTABILITY

**Gradient Method, Conjugate**  
USE CONJUGATE GRADIENT METHOD

## GRAVITATIONAL PHYSIOLOGY

## GRAVITINOS

## GRAVITY PROBE B

## GRAY SCALE

## GREEN'S FUNCTIONS

**Grids, Computational**  
USE COMPUTATIONAL GRIDS

**Grids (Mathematics)**  
USE COMPUTATIONAL GRIDS

**Group (Astronomy), Local**  
USE LOCAL GROUP (ASTRONOMY)

## GYRES

## H

**Habitats, Space**  
USE SPACE HABITATS

## HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

**Heat, Waste**  
USE WASTE HEAT

**Height, Mixing**  
USE MIXING HEIGHT

**Hemisphere, Eastern**  
USE EASTERN HEMISPHERE

**Hemisphere, Western**  
USE WESTERN HEMISPHERE

## HIGH REYNOLDS NUMBER

## HIGH SPEED PHOTOGRAPHY

## HIGHLY MANEUVERABLE AIRCRAFT

**HIMAT**  
USE HIGHLY MANEUVERABLE AIRCRAFT

## HIPPARCOS SATELLITE

## HOLE BURNING

**HR Diagram**  
USE HERTZSPRUNG-RUSSELL DIAGRAM

## HUBBLE SPACE TELESCOPE

## HUMAN RELATIONS

## I

**Identification And Location Exper, Feature**  
USE FEATURE IDENTIFICATION AND LOCATION  
EXPER

**IGFET**  
USE FIELD EFFECT TRANSISTORS

## IMAGE ANALYSIS

**Imagery, Satellite**  
USE SATELLITE IMAGERY

**Imaging Radar**  
USE SYNTHETIC APERTURE RADAR

## IMAGING RADAR

## NASA THESAURUS SUPPLEMENT (PART 2)

**Imaging Scope, Low Intensity X Ray**  
USE LIXISCOPES

**In, Burn-**  
USE BURN-IN

**In Earth Neighborhood, Origin Of Plasmas**  
USE OPEN PROJECT

**(In Space), Hazardous Material Disposal**  
USE HAZARDOUS MATERIAL DISPOSAL (IN  
SPACE)

**Index, Vegetative**  
USE VEGETATIVE INDEX

**(Indian Spacecraft), IRS**  
USE INDIAN SPACECRAFT

**(Indian Spacecraft), SEO**  
USE INDIAN SPACECRAFT

## INDOOR AIR POLLUTION

**Information Systems, Geographic**  
USE GEOGRAPHIC INFORMATION SYSTEMS

## INFORMATION TRANSFER

## INFRARED SIGNATURES

**INSAT Satellites**  
USE INDIAN SPACECRAFT

**Instability, Goertler**  
USE GOERTLER INSTABILITY

**Instability, Taylor-Goertler**  
USE GOERTLER INSTABILITY

## INTEGRAL ROCKET RAMJETS

## INTEGRALS

## INTEGRATED LIBRARY SYSTEMS

**Integration, Data**  
USE DATA INTEGRATION

**Integration, Very Large Scale**  
USE VERY LARGE SCALE INTEGRATION

**Intensity X Ray Imaging Scope, Low**  
USE LIXISCOPES

## INTERACTIONAL AERODYNAMICS

**Interactions, Beta**  
USE WEAK INTERACTIONS (FIELD THEORY)

**Interactions, Fluid-Solid**  
USE FLUID-SOLID INTERACTIONS

**Interactions, Rotor Body**  
USE ROTOR BODY INTERACTIONS

**Interactions, Solar Planetary**  
USE SOLAR PLANETARY INTERACTIONS

**Interactions, Surface Noise**  
USE SURFACE NOISE INTERACTIONS

## INTERDIGITAL TRANSDUCERS

**Interpersonal Relations**  
USE HUMAN RELATIONS

**Ion Spectrometers**  
USE MASS SPECTROMETERS

## IONOPAUSE

**Ions, Formyl**  
USE FORMYL IONS

## IRAS-ARAKI-ALCOCK COMET

**IRS (Indian Spacecraft)**  
USE INDIAN SPACECRAFT

Island, Prince Edward  
USE PRINCE EDWARD ISLAND

**J****JAPANESE SPACECRAFT**

(Japanese Spacecraft), MOS  
USE JAPANESE SPACECRAFT

Jets, Particle Laden  
USE PARTICLE LADEN JETS

**JUPITER SATELLITES****K**

K-Mesons  
USE KAONS

**KAMPUCHEA****L****L-SAT**

Laden Jets, Particle  
USE PARTICLE LADEN JETS

**LANDSAT 4****LANDSAT 5**

Language), Ada (Programming  
USE ADA (PROGRAMMING LANGUAGE)

Language), APL (Programming  
USE APL (PROGRAMMING LANGUAGE)

Languages, Command  
USE COMMAND LANGUAGES

Languages, Query  
USE QUERY LANGUAGES

Large Scale Integration, Very  
USE VERY LARGE SCALE INTEGRATION

Large Space Telescope  
USE HUBBLE SPACE TELESCOPE

Large Telecomm Satellite, European  
USE L-SAT

Lasers, Solar  
USE SOLAR-PUMPED LASERS

Lasers, Solar-Pumped  
USE SOLAR-PUMPED LASERS

Lasers, Xenon Chloride  
USE XENON CHLORIDE LASERS

**LEVITATION MELTING**

Library Systems, Integrated  
USE INTEGRATED LIBRARY SYSTEMS

**LIGHT VALVES**

(Liquefiers), Condensers  
USE CONDENSERS (LIQUEFIERS)

Liquid Plus Solid Zones  
USE MUSHY ZONES

Loading, Atmospheric  
USE POLLUTION TRANSPORT

**LOCAL GROUP (ASTRONOMY)**

Location Exper, Feature Identification And  
USE FEATURE IDENTIFICATION AND LOCATION  
EXPER

**LOGIC PROGRAMMING**

Loss, Coolant  
USE LOSS OF COOLANT

**LOSS OF COOLANT**

Loss, Power  
USE POWER LOSS

Low Intensity X Ray Imaging Scope  
USE LIXISCOPES

**LOW REYNOLDS NUMBER****LUNAR ATMOSPHERE****M**

Madagascar  
USE MALAGASY REPUBLIC

**MAGELLAN MISSION****MAGNETIC BEARINGS****MAGSAT B SATELLITE**

Main Sequence Stars, Pre-  
USE PRE-MAIN SEQUENCE STARS

Maintenance, Spacecraft  
USE SPACECRAFT MAINTENANCE

Management, Business  
USE INDUSTRIAL MANAGEMENT

Management, Fluid  
USE FLUID MANAGEMENT

Management Systems, Flight  
USE FLIGHT MANAGEMENT SYSTEMS

Maneuverable Aircraft, Highly  
USE HIGHLY MANEUVERABLE AIRCRAFT

Maneuvering, Aero  
USE AEROMANEUVERING

Maneuvering System, Teleoperator  
USE TELEOPERATORS

Maneuvering Units, Manned  
USE MANNED MANEUVERING UNITS

Maneuvering Vehicles, Orbital  
USE ORBITAL MANEUVERING VEHICLES

**MANNED MANEUVERING UNITS**

(Manufacturing), CAM  
USE COMPUTER AIDED MANUFACTURING

Manufacturing, Computer Aided  
USE COMPUTER AIDED MANUFACTURING

Mapping, Computer Aided  
USE COMPUTER AIDED MAPPING

**MARSAT****MARANGONI CONVECTION****MARECS MARITIME SATELLITES**

Margins, Continental  
USE CONTINENTAL SHELVES

**MARINER MARK 2 SPACECRAFT**

Maritime Satellites, Marecs  
USE MARECS MARITIME SATELLITES

Mark 2 Spacecraft, Mariner  
USE MARINER MARK 2 SPACECRAFT

Material Disposal (In Space), Hazardous  
USE HAZARDOUS MATERIAL DISPOSAL (IN  
SPACE)

Materials, Electrode  
USE ELECTRODE MATERIALS

Materials, Strategic  
USE STRATEGIC MATERIALS

(Mathematics), Grids  
USE COMPUTATIONAL GRIDS

(Mathematics), Mesh  
USE COMPUTATIONAL GRIDS

Matrix Composites, Ceramic  
USE CERAMIC MATRIX COMPOSITES

Medicine, Nuclear  
USE NUCLEAR MEDICINE

**MEGAMECHANICS**

Melting, Levitation  
USE LEVITATION MELTING

**MEMORY (COMPUTERS)**

Memory Systems, Virtual  
USE VIRTUAL MEMORY SYSTEMS

Mesfets  
USE FIELD EFFECT TRANSISTORS

Mesh (Mathematics)  
USE COMPUTATIONAL GRIDS

**MESON RESONANCE****METALLICITY**

Meteorite, Allende  
USE ALLENDE METEORITE

Meteorite, Murchison  
USE MURCHISON METEORITE

Meteoroid Technology Satellite  
USE EXPLORER 46 SATELLITE

Meteorological Satellite Program, Defense  
USE DMSP SATELLITES

Method, Conjugate Gradient  
USE CONJUGATE GRADIENT METHOD

Method, Crank-Nicholson  
USE CRANK-NICHOLSON METHOD

Methods, Spectral  
USE SPECTRAL METHODS

Microchannel Arrays, Multi-Anode  
USE MULTI-ANODE MICROCHANNEL ARRAYS

Microgravity  
USE REDUCED GRAVITY

**MICROGRAVITY APPLICATIONS****MICROMECHANICS**

Milankovitch Theory  
USE CLIMATOLOGY

**MINIMAL SURFACES**

Misfets  
USE FIELD EFFECT TRANSISTORS

Mission, Magellan  
USE MAGELLAN MISSION

Mission, Rosat  
USE ROSAT MISSION

## Mixing Depth

Mixing Depth  
USE MIXING HEIGHT

## MIXING HEIGHT

## MOBILE COMMUNICATION SYSTEMS

Mode Coupling  
USE COUPLED MODES

Modeling, Continuum  
USE CONTINUUM MODELING

Models, Static  
USE STATIC MODELS

Modes, Ballooning  
USE BALLOONING MODES

Modes (Plasmas), Tearing  
USE TEARING MODES (PLASMAS)

Monophosphate, Cyclic Adenosine  
USE CYCLIC AMP

MOS (Japanese Spacecraft)  
USE JAPANESE SPACECRAFT

## MOTION SIMULATION

## MOZAMBIQUE

## MUCUS

## MULTI-ANODE MICROCHANNEL ARRAYS

## MULTIBEAM ANTENNAS

Multiple Access, Demand Assignment  
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

## MURCHISON METEORITE

## MUSHY ZONES

# N

## NARROWBAND

(NASA), Space Operations Center  
USE SPACE OPERATIONS CENTER (NASA)

Navigation System, Transit  
USE TRANSIT NAVIGATION SYSTEM

Nebulae, Reflection  
USE REFLECTION NEBULAE

Neighborhood, Origin Of Plasmas In Earth  
USE OPEN PROJECT

## NEUTRAL ATMOSPHERES

## NEW BRUNSWICK

## NEW YORK CITY (NY)

## NEWFOUNDLAND

Nicholson Method, Crank-  
USE CRANK-NICHOLSON METHOD

Nitrogen Fixation  
USE NITROGENATION

## NITROGENATION

NOAA E  
USE NOAA 8 SATELLITE

## NOAA 8 SATELLITE

Noise Interactions, Surface  
USE SURFACE NOISE INTERACTIONS

North Vietnam  
USE VIETNAM

## NORTHWEST TERRITORIES

## NOVA COMPUTERS

## NOVA SATELLITES

## NOVA SCOTIA

## NOWCASTING

## NUCLEAR MEDICINE

Nuclear Wastes  
USE RADIOACTIVE WASTES

Nuclei, Condensation  
USE CONDENSATION NUCLEI

Number, Biot  
USE BIOT NUMBER

Number, High Reynolds  
USE HIGH REYNOLDS NUMBER

Number, Low Reynolds  
USE LOW REYNOLDS NUMBER

## NUMERICAL DATA BASES

(NY), New York City  
USE NEW YORK CITY (NY)

# O

Observatory, Einstein  
USE HEAO 2

## OPEN PROJECT

Operations Center (NASA), Space  
USE SPACE OPERATIONS CENTER (NASA)

## OPHIUCHI CLOUDS

## OPTICAL BISTABILITY

## OPTICAL COMPUTERS

## OPTICAL DISKS

Optical Telescope, Solar  
USE SOLAR OPTICAL TELESCOPE

Oratory  
USE PUBLIC SPEAKING

## ORBITAL MANEUVERING VEHICLES

Orbiter 103, Space Shuttle  
USE SPACE SHUTTLE ORBITER 103

Orbiter 104, Space Shuttle  
USE SPACE SHUTTLE ORBITER 104

Origin Of Plasmas In Earth Neighborhood  
USE OPEN PROJECT

## OSCILLATOR STRENGTHS

Oscillators, Voltage Controlled  
USE VOLTAGE CONTROLLED OSCILLATORS

# P

Parameter, Time Temperature  
USE TIME TEMPERATURE PARAMETER

## PARTICLE LADEN JETS

(Particle Physics), Flavor  
USE FLAVOR (PARTICLE PHYSICS)

Path Analysis, Gas  
USE GAS PATH ANALYSIS

## NASA THESAURUS SUPPLEMENT (PART 2)

## PAYLOAD TRANSFER

PBB  
USE POLYBROMINATED BIPHENYLS

Permeation Chromatography, Gel  
USE LIQUID CHROMATOGRAPHY

## PERSONAL COMPUTERS

Philosophers Problem, Dining  
USE DINING PHILOSOPHERS PROBLEM

Photoclinometry  
USE PHOTOGRAMMETRY

Photography, High Speed  
USE HIGH SPEED PHOTOGRAPHY

Physics), Flavor (Particle  
USE FLAVOR (PARTICLE PHYSICS)

Physiology, Gravitational  
USE GRAVITATIONAL PHYSIOLOGY

Pioneer 12 Space Probe  
USE PIONEER VENUS SPACECRAFT

Planetary Interactions, Solar  
USE SOLAR PLANETARY INTERACTIONS

Plants, Solar Thermal Electric Power  
USE SOLAR THERMAL ELECTRIC POWER PLANTS

## PLASMA ANTENNAS

## PLASMA BUBBLES

Plasmas In Earth Neighborhood, Origin Of  
USE OPEN PROJECT

(Plasmas), Tearing Modes  
USE TEARING MODES (PLASMAS)

Plus Solid Zones, Liquid  
USE MUSHY ZONES

## POLAR CUSPS

## POLARITONS

Pollution, Indoor Air  
USE INDOOR AIR POLLUTION

## POLYBROMINATED BIPHENYLS

Positioning, Satellite Doppler  
USE SATELLITE DOPPLER POSITIONING

## POWER FACTOR CONTROLLERS

## POWER LOSS

Power Plants, Solar Thermal Electric  
USE SOLAR THERMAL ELECTRIC POWER PLANTS

Power Supplies, Aircraft  
USE AIRCRAFT POWER SUPPLIES

PR  
USE PUERTO RICO

## PRE-MAIN SEQUENCE STARS

Precession, Vortex  
USE VORTEX PRECESSION

## PREPROCESSING

## PRINCE EDWARD ISLAND

## PRINCIPAL COMPONENTS ANALYSIS

Probe B, Gravity  
USE GRAVITY PROBE B

Probe, Pioneer 12 Space  
USE PIONEER VENUS SPACECRAFT



## NASA THESAURUS SUPPLEMENT (PART 2)

**Problem, Dining Philosophers**  
USE DINING PHILOSOPHERS PROBLEM

**Process, Fischer-Tropsch**  
USE FISCHER-TROPSCH PROCESS

**Processing, Concurrent**  
USE CONCURRENT PROCESSING

**Processing, Distributed**  
USE DISTRIBUTED PROCESSING

**Processing), Frames (Data**  
USE FRAMES (DATA PROCESSING)

**Program, ACEE**  
USE ACEE PROGRAM

**Program, Aircraft Energy Efficiency**  
USE ACEE PROGRAM

**Program, Brazilian Space**  
USE BRAZILIAN SPACE PROGRAM

**Program, DAST**  
USE DAST PROGRAM

**Program, Defense Meteorological Satellite**  
USE DMSP SATELLITES

**Program, Energy Efficiency Transport**  
USE ACEE PROGRAM

**(Programming Language), Ada**  
USE ADA (PROGRAMMING LANGUAGE)

**(Programming Language), APL**  
USE APL (PROGRAMMING LANGUAGE)

**Programming, Logic**  
USE LOGIC PROGRAMMING

**Project, Open**  
USE OPEN PROJECT

**Properties, Asymptotic**  
USE ASYMPTOTIC PROPERTIES

**PROTOCOL (COMPUTERS)**

**PSEUDOPOTENTIALS**

**PUBLIC SPEAKING**

**PULSE REPETITION RATE**

**Pumped Lasers, Solar-**  
USE SOLAR-PUMPED LASERS

**P78-2 Satellite**  
USE SCATHA SATELLITE

## Q

**QUANTUM ELECTRONICS**

**QUERY LANGUAGES**

## R

**Radar, Imaging**  
USE IMAGING RADAR

**Radar, Imaging**  
USE SYNTHETIC APERTURE RADAR

**RADARSAT**

**Radiation Medicine**  
USE NUCLEAR MEDICINE

**RADIOCARDIOGRAPHY**

**Ramjets, Integral Rocket**  
USE INTEGRAL ROCKET RAMJETS

**Ranging, Sound Fixing And**  
USE SOUND FIXING AND RANGING

**Rate, Bit Error**  
USE BIT ERROR RATE

**Rate, Pulse Repetition**  
USE PULSE REPETITION RATE

**Ratio, Temperature**  
USE TEMPERATURE RATIO

**Ratioing, Band**  
USE BAND RATIOING

**Ray Imaging Scope, Low Intensity X**  
USE LIXISCOPES

**Ray Timing Explorer, X**  
USE X RAY TIMING EXPLORER

**RAYLEIGH-BENARD CONVECTION**

**Rays, Galactic Cosmic**  
USE GALACTIC COSMIC RAYS

**Rearward Facing Steps**  
USE BACKWARD FACING STEPS

**Receivers, Solar**  
USE SOLAR COLLECTORS

**RECTANGULAR WAVEGUIDES**

**Rectifiers, Reverse Switching**  
USE REVERSE SWITCHING RECTIFIERS

**RED DWARF STARS**

**REFLECTION NEBULAE**

**REFORESTATION**

**Region, Caribbean**  
USE CARIBBEAN REGION

**Relations, Human**  
USE HUMAN RELATIONS

**Relations, Interpersonal**  
USE HUMAN RELATIONS

**Repetition Rate, Pulse**  
USE PULSE REPETITION RATE

**Research Wings, Aeroelastic**  
USE AEROELASTIC RESEARCH WINGS

**Resonance, Baryon**  
USE BARYON RESONANCE

**Resonance, Meson**  
USE MESON RESONANCE

**Retardants, Fire**  
USE FLAME RETARDANTS

**Retrievable Carrier, European**  
USE EURECA (ESA)

**REVERSE SWITCHING RECTIFIERS**

**Reynolds Number, High**  
USE HIGH REYNOLDS NUMBER

**Reynolds Number, Low**  
USE LOW REYNOLDS NUMBER

**ROBOTICS**

**Rocket, Aries Sounding**  
USE ARIES SOUNDING ROCKET

**Rocket Ramjets, Integral**  
USE INTEGRAL ROCKET RAMJETS

**ROMANIA**

**ROSAT MISSION**

**ROTARY ENGINES**

## Scope, Low Intensity X Ray Imaging

**Rotation, Carrington**  
USE SOLAR ROTATION

**ROTOR BODY INTERACTIONS**

**Rumania**  
USE ROMANIA

## S

**SAND CASTING**

**Sat, L-**  
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**Satellite, Cosmos 954**  
USE COSMOS 954 SATELLITE

**SATELLITE DOPPLER POSITIONING**

**Satellite, European Large Telecomm**  
USE L-SAT

**Satellite, Explorer 44**  
USE EXPLORER 44 SATELLITE

**Satellite, Explorer 46**  
USE EXPLORER 46 SATELLITE

**Satellite, Hipparcos**  
USE HIPPARCOS SATELLITE

**SATELLITE IMAGERY**

**Satellite, Magsat B**  
USE MAGSAT B SATELLITE

**Satellite, Meteoroid Technology**  
USE EXPLORER 46 SATELLITE

**Satellite, NOAA 8**  
USE NOAA 8 SATELLITE

**Satellite Program, Defense Meteorological**  
USE DMSP SATELLITES

**Satellite, P78-2**  
USE SCATHA SATELLITE

**Satellite, Solrad 10**  
USE EXPLORER 44 SATELLITE

**Satellites, Anik**  
USE ANIK SATELLITES

**Satellites, Astronomical**  
USE ASTRONOMICAL SATELLITES

**Satellites, Dmisp**  
USE DMSP SATELLITES

**Satellites, INSAT**  
USE INDIAN SPACECRAFT

**Satellites, Jupiter**  
USE JUPITER SATELLITES

**Satellites, Marecs Maritime**  
USE MARECS MARITIME SATELLITES

**Satellites, Nova**  
USE NOVA SATELLITES

**Scale, Gray**  
USE GRAY SCALE

**Scale Integration, Very Large**  
USE VERY LARGE SCALE INTEGRATION

**SCANDINAVIA**

**Scarps**  
USE ESCARPMENTS

**Scope, Low Intensity X Ray Imaging**  
USE LIXISCOPES

## Scotia, Nova

**Scotia, Nova**  
USE NOVA SCOTIA

**SDV**  
USE SHUTTLE DERIVED VEHICLES

## SEASAT 1

**(Season), Spring**  
USE SPRING (SEASON)

**Selective Coatings, Solar**  
USE SELECTIVE SURFACES

## SELECTIVE SURFACES

## SELF SHADOWING

**SEO (Indian Spacecraft)**  
USE INDIAN SPACECRAFT

**Sequence Stars, Pre-Main**  
USE PRE-MAIN SEQUENCE STARS

**SFAR**  
USE SOUND FIXING AND RANGING

**Shadowing, Self**  
USE SELF SHADOWING

## SHELL ANODES

## SHIP TO SHORE COMMUNICATION

**Shore Communication, Ship To**  
USE SHIP TO SHORE COMMUNICATION

## SHORT CIRCUIT CURRENTS

## SHUTTLE DERIVED VEHICLES

**Shuttle Orbiter 103, Space**  
USE SPACE SHUTTLE ORBITER 103

**Shuttle Orbiter 104, Space**  
USE SPACE SHUTTLE ORBITER 104

**Signals, Audio**  
USE AUDIO SIGNALS

**Signals, Video**  
USE VIDEO SIGNALS

**Signatures, Infrared**  
USE INFRARED SIGNATURES

**Simulation, Data**  
USE DATA SIMULATION

**Simulation, Motion**  
USE MOTION SIMULATION

## SOBOLEV SPACE

**SOFAR**  
USE SOUND FIXING AND RANGING

## SOFTWARE ENGINEERING

## SOFTWARE TOOLS

## SOLAR BACKSCATTER UV SPECTROMETER

**Solar Lasers**  
USE SOLAR-PUMPED LASERS

## SOLAR OPTICAL TELESCOPE

## SOLAR PLANETARY INTERACTIONS

**Solar Receivers**  
USE SOLAR COLLECTORS

**Solar Selective Coatings**  
USE SELECTIVE SURFACES

## SOLAR THERMAL ELECTRIC POWER PLANTS

## SOLAR-PUMPED LASERS

**Solid Interactions, Fluid-**  
USE FLUID-SOLID INTERACTIONS

**Solid Zones, Liquid Plus**  
USE MUSHY ZONES

**Solrad 10 Satellite**  
USE EXPLORER 44 SATELLITE

**Sonic Fatigue**  
USE ACOUSTIC FATIGUE

**SOT**  
USE SOLAR OPTICAL TELESCOPE

## SOUND FIXING AND RANGING

**Sounding Rocket, Aries**  
USE ARIES SOUNDING ROCKET

## SPACE COMMERCIALIZATION

## SPACE HABITATS

**Space), Hazardous Material Disposal (In**  
USE HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

## SPACE OPERATIONS CENTER (NASA)

**Space Probe, Pioneer 12**  
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**Space Program, Brazilian**  
USE BRAZILIAN SPACE PROGRAM

## SPACE SHUTTLE ORBITER 103

## SPACE SHUTTLE ORBITER 104

**Space, Sobolev**  
USE SOBOLEV SPACE

**Space Telescope, Hubble**  
USE HUBBLE SPACE TELESCOPE

**Spacecraft, Canadian**  
USE CANADIAN SPACECRAFT

**Spacecraft, Commercial**  
USE COMMERCIAL SPACECRAFT

## SPACECRAFT EQUIPMENT

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USE INDIAN SPACECRAFT

**Spacecraft, Japanese**  
USE JAPANESE SPACECRAFT

## SPACECRAFT MAINTENANCE

**Spacecraft, Mariner Mark 2**  
USE MARINER MARK 2 SPACECRAFT

**Spacecraft), MOS (Japanese**  
USE JAPANESE SPACECRAFT

**Spacecraft), SEO (Indian**  
USE INDIAN SPACECRAFT

**Speaking, Public**  
USE PUBLIC SPEAKING

## SPECTRAL METHODS

**Spectrometer, Solar Backscatter UV**  
USE SOLAR BACKSCATTER UV SPECTROMETER

**Spectrometers, Ion**  
USE MASS SPECTROMETERS

## SPECTROPHOTOVOLTAICS

**Spectroscopic Explorer, Far UV**  
USE FAR UV SPECTROSCOPIC EXPLORER

**Speeches**  
USE LECTURES

## NASA THESAURUS SUPPLEMENT (PART 2)

**Speed Photography, High**  
USE HIGH SPEED PHOTOGRAPHY

## SPRING (SEASON)

**Stars, Double**  
USE BINARY STARS

**Stars, Pre-Main Sequence**  
USE PRE-MAIN SEQUENCE STARS

**Stars, Red Dwarf**  
USE RED DWARF STARS

**Stars, Symbiotic**  
USE SYMBIOTIC STARS

**Start, Air**  
USE AIR START

**States, United**  
USE UNITED STATES

## STATIC CHARACTERISTICS

## STATIC MODELS

## STELLAR ACTIVITY

## STELLAR COLOR

## STELLAR COMPOSITION

## STELLAR CORES

**Steps, Backward Facing**  
USE BACKWARD FACING STEPS

**Steps, Rearward Facing**  
USE BACKWARD FACING STEPS

## STEREOPHONICS

## STRANGE ATTRACTORS

## STRATEGIC MATERIALS

**Strengths, Oscillator**  
USE OSCILLATOR STRENGTHS

**Struct Test, Drones For Aerodynamic And**  
USE DAST PROGRAM

**Structures, Data**  
USE DATA STRUCTURES

**Structures, Telescoping**  
USE FOLDING STRUCTURES

## SUPERCOMPUTERS

## SUPERCritical AIRFOILS

## SUPERLATTICES

**Supplies, Aircraft Power**  
USE AIRCRAFT POWER SUPPLIES

## SURFACE NOISE INTERACTIONS

**Surfaces, Minimal**  
USE MINIMAL SURFACES

**Surfaces, Selective**  
USE SELECTIVE SURFACES

## SWATH WIDTH

**Switching Rectifiers, Reverse**  
USE REVERSE SWITCHING RECTIFIERS

## SYMBIOTIC STARS

**System, Teleoperator Maneuvering**  
USE TELEOPERATORS

**System, Transit Navigation**  
USE TRANSIT NAVIGATION SYSTEM

**Systems Design, Controlled**  
USE CONTROLLED SYSTEMS DESIGN

## NASA THESAURUS SUPPLEMENT (PART 2)

**Systems, Embedded Computer**  
USE EMBEDDED COMPUTER SYSTEMS

**Systems, Expert**  
USE EXPERT SYSTEMS

**Systems, Flight Management**  
USE FLIGHT MANAGEMENT SYSTEMS

**Systems, Geographic Information**  
USE GEOGRAPHIC INFORMATION SYSTEMS

**Systems, Integrated Library**  
USE INTEGRATED LIBRARY SYSTEMS

**Systems, Mobile Communication**  
USE MOBILE COMMUNICATION SYSTEMS

**Systems, Virtual Memory**  
USE VIRTUAL MEMORY SYSTEMS

## T

**TAGN**

**TAIWAN**

**Takeoff-Landing Aircraft, Vertical Attitude**  
USE VATOL AIRCRAFT

**TATB**

**Taylor-Goertler Instability**  
USE GOERTLER INSTABILITY

**TEARING MODES (PLASMAS)**

**Technology Satellite, Meteoroid**  
USE EXPLORER 46 SATELLITE

**Telecomm Satellite, European Large**  
USE L-SAT

**Teleoperator Maneuvering System**  
USE TELEOPERATORS

**Telescope, Hubble Space**  
USE HUBBLE SPACE TELESCOPE

**Telescope, Solar Optical**  
USE SOLAR OPTICAL TELESCOPE

**Telescoping Structures**  
USE FOLDING STRUCTURES

**Temperature Parameter, Time**  
USE TIME TEMPERATURE PARAMETER

**TEMPERATURE RATIO**

**Territories, Northwest**  
USE NORTHWEST TERRITORIES

**Territory, Yukon**  
USE YUKON TERRITORY

**Test, Bruceton**  
USE STATISTICAL TESTS

**Test, Drones For Aerodynamic And Struct**  
USE DAST PROGRAM

**Theory, Milankovitch**  
USE CLIMATOLOGY

**Theory, Unified Field**  
USE UNIFIED FIELD THEORY

**THERMAL ANALYSIS**

**Thermal Electric Power Plants, Solar**  
USE SOLAR THERMAL ELECTRIC POWER PLANTS

**THRUSTORS**

**TIME TEMPERATURE PARAMETER**

**Timing Explorer, X Ray**  
USE X RAY TIMING EXPLORER

**TIP VANES**

**Tips, Crack**  
USE CRACK TIPS

**Tools, Software**  
USE SOFTWARE TOOLS

**TOPPING CYCLE ENGINES**

**Towers, Whirl**  
USE WHIRL TOWERS

**Transducers, Interdigital**  
USE INTERDIGITAL TRANSDUCERS

**Transfer, Payload**  
USE PAYLOAD TRANSFER

**TRANSIT NAVIGATION SYSTEM**

**Transit Vehicles, Automated**  
USE AUTOMATED TRANSIT VEHICLES

**Transport Program, Energy Efficiency**  
USE ACEE PROGRAM

**Triaminoguanidinonitrate**  
USE TAGN

**Triaminotrinrobenzene**  
USE TATB

**TRIBOLUMINESCENCE**

**Tropsch Process, Fischer-**  
USE FISCHER-TROPSCH PROCESS

**TYROSINE**

## U

**ULTRALIGHT AIRCRAFT**

**UNIFIED FIELD THEORY**

**UNITED STATES**

**Units, Agrophysical**  
USE AGROPHYSICAL UNITS

**Units, Manned Maneuvering**  
USE MANNED MANEUVERING UNITS

**US-2A Aircraft**  
USE S-2 AIRCRAFT

**UV Spectrometer, Solar Backscatter**  
USE SOLAR BACKSCATTER UV SPECTROMETER

**UV Spectroscopic Explorer, Far**  
USE FAR UV SPECTROSCOPIC EXPLORER

## V

**Vaisala Frequency, Brunt-**  
USE BRUNT-VAISALA FREQUENCY

**Valves, Light**  
USE LIGHT VALVES

**Vanes, Tip**  
USE TIP VANES

**Variables, Cataclysmic**  
USE CATACLYSMIC VARIABLES

**VCO**  
USE VOLTAGE CONTROLLED OSCILLATORS

**VEGETATIVE INDEX**

## YUKON TERRITORY

**Vehicles, Automated Transit**  
USE AUTOMATED TRANSIT VEHICLES

**Vehicles, Orbital Maneuvering**  
USE ORBITAL MANEUVERING VEHICLES

**Vehicles, Shuttle Derived**  
USE SHUTTLE DERIVED VEHICLES

**Vertical Attitude Takeoff-Landing Aircraft**  
USE VATOL AIRCRAFT

**VERY LARGE SCALE INTEGRATION**

**VIDEO SIGNALS**

**VIRTUAL MEMORY SYSTEMS**

**VLSI**  
USE VERY LARGE SCALE INTEGRATION

**VOLTAGE CONTROLLED OSCILLATORS**

**VORTEX PRECESSION**

## W

**W**  
USE TUNGSTEN

**WASTE HEAT**

**Wastes, Nuclear**  
USE RADIOACTIVE WASTES

**Waveguides, Circular**  
USE CIRCULAR WAVEGUIDES

**Waveguides, Rectangular**  
USE RECTANGULAR WAVEGUIDES

**WESTERN HEMISPHERE**

**WHIRL TOWERS**

**Width, Swath**  
USE SWATH WIDTH

**Wings, Aeroelastic Research**  
USE AERELASTIC RESEARCH WINGS

**Wings, Cranked**  
USE SWEPT WINGS

**Wolfgram**  
USE TUNGSTEN

## X

**X Ray Imaging Scope, Low Intensity**  
USE LIXISCOPES

**X RAY TIMING EXPLORER**

**XENON CHLORIDE LASERS**

## Y

**York City (NY), New**  
USE NEW YORK CITY (NY)

**YUKON TERRITORY**

**Z****Zones, Float**

USE FLOAT ZONES

**Zones, Liquid Plus Solid**

USE MUSHY ZONES

**Zones, Mushy**

USE MUSHY ZONES

**NUMERICAL  
LISTING****1, SEASAT**

USE SEASAT 1

**2 Satellite, P78-**

USE SCATHA SATELLITE

**2 Spacecraft, Mariner Mark**

USE MARINER MARK 2 SPACECRAFT

**2A Aircraft, US-**

USE S-2 AIRCRAFT

**4, LANDSAT**

USE LANDSAT 4

**5, LANDSAT**

USE LANDSAT 5

**8 Satellite, NOAA**

USE NOAA 8 SATELLITE

**10 Satellite, Solrad**

USE EXPLORER 44 SATELLITE

**12 Space Probe, Pioneer**

USE PIONEER VENUS SPACECRAFT

**44 Satellite, Explorer**

USE EXPLORER 44 SATELLITE

**46 Satellite, Explorer**

USE EXPLORER 46 SATELLITE

**103, Space Shuttle Orbiter**

USE SPACE SHUTTLE ORBITER 103

**104, Space Shuttle Orbiter**

USE SPACE SHUTTLE ORBITER 104

**205 Computer, CDC Cyber**

USE CDC CYBER 205 COMPUTER

**310 Aircraft, A-**

USE A-310 AIRCRAFT

**320 Aircraft, A-**

USE A-320 AIRCRAFT

**954 Satellite, Cosmos**

USE COSMOS 954 SATELLITE

# NASA THESAURUS SUPPLEMENT

## PART 3 DELETIONS

**AEROMAGNETISM**  
Use GEOMAGNETISM  
Deleted, term now postable

**BARYON RESONANCES**  
Transferred to BARYON RESONANCE

**CAMBODIA**  
Transferred to KAMPUCHEA

**CHINA (Array term)**  
Deleted

**CHINA (MAINLAND)**  
Transferred to CHINA

**CHINA (TAIWAN)**  
Transferred to TAIWAN

**COMPUTERIZED DESIGN**  
Transferred to COMPUTER AIDED DESIGN

**CONDENSERS (LIQUIFIERS)**  
Transferred to CONDENSERS (LIQUEFIERS)

**DAHOMAY**  
Transferred to BENIN

**DIKES**  
Use ROCK INTRUSIONS  
Deleted

**DIFFERENTIAL ANALYZERS**  
Use ANALOG COMPUTERS  
Deleted, term now postable

**DIRECTORIES**  
Use INDEXES (DOCUMENTATION)  
Deleted

**EXERCISE (PHYSIOLOGY)**  
Use PHYSICAL EXERCISE  
Deleted

**EXPERIMENTAL DESIGN**  
Transferred to EXPERIMENT DESIGN

**FLUORPHLOGOPITE**  
Transferred to FLUOROPHLOGOPITE

**GIOTTO MISSION**  
Use EUROPEAN SPACE PROGRAM  
HALLEY'S COMET  
Deleted, term now postable

**IMAGING RADAR**  
Use SYNTHETIC APERTURE RADAR  
Deleted, term now postable

**INFORMATION TRANSFER**  
Use COMMUNICATING  
Deleted, term now postable

**INTELSAT 1 SATELLITE**  
Transferred to INTELSAT SATELLITES

**INTELSAT 2 SATELLITE**  
Transferred to INTELSAT SATELLITES

**INTELSAT 3 SATELLITE**  
Transferred to INTELSAT SATELLITES

**INTELSAT 4 SATELLITE**  
Transferred to INTELSAT SATELLITES

**INTELSAT 5 SATELLITE**  
Transferred to INTELSAT SATELLITES

**INTELSAT 5B SATELLITE**  
Transferred to INTELSAT SATELLITES

**INTELSAT 5C SATELLITE**  
Transferred to INTELSAT SATELLITES

**INTELSAT 5F SATELLITE**  
Transferred to INTELSAT SATELLITES

**K-MESONS**  
Transferred to KAONS

**LANDSAT D**  
Transferred to LANDSAT 4

**LARGE SPACE TELESCOPE**  
Transferred to HUBBLE SPACE TELESCOPE

**LOW INTENSITY X-RAY IMAGING SCOPE**  
Transferred to LOW INTENSITY X RAY IMAGING SCOPE

**LOWER BODY NEGATIVE PRESSURE (LBNP)**  
Use ACCELERATION STRESSES (PHYSIOLOGY)  
Deleted

**LUNAR ATMOSPHERES**  
Transferred to LUNAR ATMOSPHERE

**MESON RESONANCES**  
Transferred to MESON RESONANCE

**MUCOUS**  
Transferred to MUCUS

**NORTH VIETNAM**  
Transferred to VIETNAM

**NOVA SATELLITE**  
Transferred to NOVA SATELLITES

**OKHOTSK SEA**  
Transferred to SEA OF OKHOTSK

**PHASED LOCKED SYSTEMS**  
Transferred to PHASE LOCKED SYSTEMS

**RADIATION MEDICINE**  
Transferred to NUCLEAR MEDICINE

**RCA SATCOM C**  
Transferred to RCA SATCOM SATELLITES

**RCA SATCOM 1**  
Transferred to RCA SATCOM SATELLITES

**RCA SATCOM 2**  
Transferred to RCA SATCOM SATELLITES

**ROMANIA**  
Use RUMANIA  
Deleted

**RUMANIA**  
Transferred to ROMANIA

**SEASAT-A SATELLITE**  
Transferred to SEASAT 1

**THRUSTORS**  
Use ROCKET ENGINES  
Deleted, term now postable

**TIROS N SATELLITES**  
Transferred to TIROS N SERIES SATELLITES

**TRANSIT 1A SATELLITE**  
Transferred to TRANSIT SATELLITES

**TRANSIT 1B SATELLITE**  
Transferred to TRANSIT SATELLITES

**TRANSIT 2A SATELLITE**  
Transferred to TRANSIT SATELLITES

**TRANSIT 3B SATELLITE**  
Transferred to TRANSIT SATELLITES

**TRANSIT 4A SATELLITE**  
Transferred to TRANSIT SATELLITES

**TRANSIT 4B SATELLITE**  
Transferred to TRANSIT SATELLITES

**TRANSIT 5A SATELLITE**  
Transferred to TRANSIT SATELLITES

**UNITED STATES OF AMERICA**  
Transferred to UNITED STATES

**VERTICAL ATTITUDE TAKEOFF-LANDING AIRCRAFT**  
Use VATOL AIRCRAFT  
Changed to  
VERTICAL ATTITUDE TAKEOFF-LANDING  
AIRCRAFT  
Use VATOL AIRCRAFT

1. Report No. NASA SP-7051 (Supp. 2)	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle  NASA Thesaurus Supplement		5. Report Date July 1984	
		6. Performing Organization Code	
7. Author(s)		8. Performing Organization Report No.	
9. Performing Organization Name and Address Scientific and Technical Information Branch National Aeronautics and Space Administration Washington, D.C. 20546		10. Work Unit No.	
		11. Contract or Grant No.	
12. Sponsoring Agency Name and Address		13. Type of Report and Period Covered	
		14. Sponsoring Agency Code	
15. Supplementary Notes			
16. Abstract  <p>The three part cumulative NASA Thesaurus Supplement to the 1982 edition of the NASA Thesaurus includes Part 1, Hierarchical Listing, Part 2, Access Vocabulary, and Part 3, Deletions. The semiannual supplement gives complete hierarchies for new terms and includes new term indications for terms new to this supplement.</p>			
17. Key Words (Suggested by Author(s)) Indexes (Documentation) Information Retrieval Terminology Thesauri		18. Distribution Statement Unclassified - Unlimited  Subject Category 82	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 34	22. Price* \$6.50

National Aeronautics and  
Space Administration

Washington, D.C.  
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